					DEPARTMEN [*]	TATE OF UTAH T OF NATURAL RES DF OIL, GAS AND M				AMENDE	FOR D REPORT		
			APPLICA	ATION FO	PERMIT TO DRILL				1. WELL NAME and N	JMBER 4-5D-45	BTR		
2. TYPE (OF WORK	DRILL NEW WE	:LL (18)	REENTER F	&A WELL DEEPEN	I WELL			3. FIELD OR WILDCA	r ALTAMO	ONT		
4. TYPE C	F WELL		Oil Well		ped Methane Well: NO				5. UNIT or COMMUNI	FIZATION A	GREEME	NT NAM	E
6. NAME	OF OPERATO	र	Oli Well		ETT CORP				7. OPERATOR PHONE	303 312-	8164		
8. ADDRE	SS OF OPERA		1099 18th S		800, Denver, CO, 80202				9. OPERATOR E-MAIL			nm	
	RAL LEASE NU L, INDIAN, OR	IMBER		5.11001 010 2	11. MINERAL OWNERS		¬	$\overline{}$	12. SURFACE OWNER	SHIP		~	
		1420H626261 E OWNER (if box	12 = 'fee')		FEDERAL INI	DIAN 📵 STATE (_) FEE		FEDERAL INI	DIAN (III) R PHONE (i	STATE (f box 12 =		E 🔾
		ACE OWNER (if I		ee')					16. SURFACE OWNE				
					18. INTEND TO COMM	MINGLE PRODUCTION	N FROM		19. SLANT				
	2 = 'INDIAN')	OR TRIBE NAME Uintah and Ouray			MULTIPLE FORMATIO			<u> </u>	VERTICAL DIF	RECTIONAL	а но	ORIZONT.	AL 🗀
20. LOC	ATION OF WE	LL		ı	OOTAGES	QTR-QTR		TION	TOWNSHIP	RAN			RIDIAN
LOCATI	ON AT SURFA	CE		755 F	NL 1292 FWL	NWNW		5	4.0 S	5.0	W		U
Top of U	Jppermost Pro	oducing Zone		810 F	NL 812 FWL	NWNW		5	4.0 S	5.0	W		U
At Tota	Depth			810 F	NL 810 FWL	NWNW		5	4.0 S	5.0	W		U
21. COUI	NTY	DUCHESNE			22. DISTANCE TO NEA	AREST LEASE LINE (F	eet)		23. NUMBER OF ACRI	ES IN DRILI 640	ING UNIT		
					25. DISTANCE TO NEA (Applied For Drilling		E POOL		26. PROPOSED DEPTI		VD: 8814		
27. ELEV	ATION - GROU	JND LEVEL 5782			28. BOND NUMBER	LPM8874725			29. SOURCE OF DRIL WATER RIGHTS APPR		BER IF AP	PLICABL	.E
					Hole, Casing	, and Cement Info	ormation	1					
String	Hole Size	Casing Size	Lengtl	h Weig	ht Grade & Thread	Max Mud Wt.			Cement		Sacks	Yield	Weight
Cond	26	16	0 - 80	0 65.0	Unknown	8.8			Unknown		0	0.0	0.0
Surf	14.75	10.75	0 - 280	00 45.	J-55 ST&C	8.8	Н	lalliburto	n Light , Type Unkr	own	720	3.16	11.0
							Hal	lliburton	Premium , Type Un	known	360	1.36	14.8
Prod	9.625	5.5	0 - 884	48 17.0	P-110 LT&C	9.7			Unknown		960	1.42	11.0
			<u> </u>		Α	ATTACHMENTS			Olikilowii		990	1.42	10.0
	VE	RIFY THE FOL	LOWING	ARE ATTA	CHED IN ACCORDAN	NCE WITH THE UT	AH OIL A	ND GAS	CONSERVATION G	ENERAL	RULES		
I ✓ V	/ELL PLAT OR	MAP PREPARED I	BY LICENS	ED SURVEY	OR OR ENGINEER	✓ COM	IPLETE DF	RILLING PL	.AN				
Al Al	FIDAVIT OF S	TATUS OF SURFA	CE OWNER	R AGREEME	NT (IF FEE SURFACE)	FOR	M 5. IF OPE	ERATOR IS	OTHER THAN THE LE	EASE OWN	ER		
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						р) горо	OGRAPHIC	CAL MAP					
NAME V	enessa Langm	acher		ті	FLE Senior Permit Analys	st .	PH	ONE 303	312-8172				
SIGNAT	JRE			D	ATE 02/21/2012		EM	IAIL vlangı	macher@billbarrettcorp	o.com			
	iber assigne 01351242			AI	PPROVAL			Bol	Sqill				
								Permit	Manager				

DRILLING PLAN

BILL BARRETT CORPORATION

4-5D-45 BTR Well Pad

Lot 4 (NW NW), 755' FNL and 1292' FWL, Section 5, T4S-R5W, USB&M (surface hole) Lot 4 (NW NW), 810' FNL and 810' FWL, Section 5, T4S-R5W, USB&M (bottom hole) Duchesne County, Utah

1 - 2. <u>Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals</u>

<u>Formation</u>	Depth – MD	Depth – TVD
Lower Green River*	5,113'	5,089'
Douglas Creek	6,002'	5,969'
Black Shale	6,813'	6,779'
Castle Peak	7,028'	6,994'
Uteland Butte	7,343'	7,309'
Wasatch*	7,583'	7,549'
TD	8,848'	8,814'

^{*}PROSPECTIVE PAY

To operate most efficiently in this manner.

Members of the Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 289'

3. **BOP and Pressure Containment Data**

Depth Intervals BOP Equipment								
0-2,800	No pressure control required							
2,800' – TD 11" 5000# Ram Type BOP								
	11" 5000# Annular BOP							
- Drilling spool to a	accommodate choke and kill lines;							
- Ancillary equipme	ent and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in							
accordance with the	he requirements of onshore Order No. 2;							
- The BLM and the	State of Utah Division of Oil, Gas and Mining will be notified 24 hours in							
advance of all BC	OP pressure tests.							
- BOP hand wheels	may be underneath the sub-structure of the rig if the drilling rig used is set up							

4. <u>Casing Program</u>

<u>Hole</u>	SETTING DEPTH		Casing	Casing	Casing		
<u>Size</u>	(FROM)	<u>(TO)</u>	Size	Weight	<u>Grade</u>	Thread	Condition
26"	Surface	80'	16"	65#			
14 3/4"	Surface	2,800'	10-3/4"	45.5#	J or K 55	BT&C	New
9-7/8"	Surface	TD	5 ½"	17#	P-110	LT&C	New
&							
8-3/4"							

NOTE: If necessary due to lost circulation, BBC would like to request the option to set 7-5/8", 33.70# P-110 LT&C to a depth of 6000', then drill a 6-1/2" hole to TD and run 5-1/2" casing as a 3000' liner (200' liner lap).

Bill Barrett Corporation Drilling Program #4-5D-45 BTR Duchesne County, Utah

4. <u>Cementing Program</u>

<u>Casing</u>	<u>Cement</u>
16" Conductor Casing	Grout
14-3/4" hole for 10-3/4" Surface	Lead with approximately 720 sx Halliburton Light Premium
Casing	with additives mixed at 11.0 ppg (yield = $3.16 \text{ ft}^3/\text{sx}$)
	circulated to surface with 75% excess. TOC @ Surface
	Tail with approximately 360 sx Halliburton Premium
	cement with additives mixed at 14.8 ppg (yield = 1.36
	ft ³ /sx). Calculated hole volume with 75% excess. TOC @
	2,300'
9-7/8 hole for 5 ½" Production	Lead with approximately 960 sx Tuned Light cement with
Casing	additives mixed at 11.0 ppg (yield = $2.31 \text{ ft}^3/\text{sx}$). TOC @
May reduce hole size to 8-3/4" at	2,300'
6000' if minimal hole problems.	
	Tail with approximately 990 sx Halliburton Econocem
	cement with additives mixed at 13.5 ppg (yield = 1.42
	ft^3/sx). TOC @ 6,313'

NOTE: If 7-5/8" casing is necessary, cement with Lead with approximately 700 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = $2.31 \text{ ft}^3/\text{sx}$). Tail with approximately 240 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = $1.42 \text{ ft}^3/\text{sx}$). Planned TOC surface. We will perform a FIT to 10.2 ppg after drilling 20' of new hole.

The 5-1/2" liner would be cemented with 300 sx of Class G 50/50 Poz w/ 2% gel (14.2 ppg) with additives from TD to 200' above TOL.

6. <u>Mud Program</u>

Interval	Weight	Viscosity	Fluid Loss	<u>Remarks</u>
			(API filtrate)	
0'-80'	8.3 - 8.8	26 - 36	NC	Freshwater Spud Mud Fluid
				System
80' - 2,800'	8.3 - 8.8	26 - 36	NC	Freshwater Spud Mud Fluid
				System
2,800' – TD	8.6 - 9.7	42 - 52	20 cc or less	DAP Polymer Fluid System

Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.

7. <u>Testing, Logging and Core Programs</u>

Cores	None anticipated
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface).
	FMI & Sonic Scanner to be run at geologist's discretion.

NOTE: If BBC pursues the "Alternate" program, a suite of the above logs will be run on both the intermediate and production hole sections.

Bill Barrett Corporation Drilling Program #4-5D-45 BTR Duchesne County, Utah

8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4446 psi* and maximum anticipated surface pressure equals approximately 2507 psi** (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

9. <u>Auxiliary Equipment</u>

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

10. Location and Type of Water Supply

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

11. <u>Drilling Schedule</u>

Location Construction: June 2012 Spud: June 2012

Duration: 15 days drilling time

45 days completion time

^{**}Maximum surface pressure = A - (0.22 x TD)

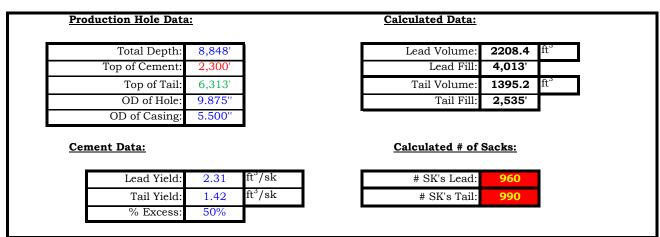


LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

AS OF: **2/18/2011**

Well Name: <u>4-5D-45 BTR</u>

Surface Hole Data:				Calculated Data:		
Total Depth:	2,800']		Lead Volume:	2239.2	ft°
Top of Cement:	0'			Lead Fill:	2,300'	
OD of Hole:	14.750"			Tail Volume:	486.8	ft°
OD of Casing:	10.750"			Tail Fill:	500'	
Cement Data:				Calculated # of	Sacks:	
ement Data:				Calculated # of	Sacks:	
Cement Data: Lead Yield:	3.16	ft³/sk	1	Calculated # of	Sacks: 720	1
	3.16 75%	ft³/sk]			ı
Lead Yield:		ft³/sk]			ı
Lead Yield: % Excess:	75% 0']			1
Lead Yield: % Excess:	75% 0'	ft°/sk ft°/sk]		720	1 1
Lead Yield: % Excess: Top of Lead:	75% 0']	# SK's Lead:	720	1 1



4-5D-45 BTR Proposed Cementing Program

Job Recommendation		Sui	face Casing
Lead Cement - (2300' - 0')			
Halliburton Light Premium	Fluid Weight:	11.0	lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield:	3.16	ft ³ /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid:	19.48	Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid:	0'	
2.0% Bentonite	Calculated Fill:	2,300'	
	Volume:	398.79	bbl
	Proposed Sacks:	720	sks
Tail Cement - (TD - 2300')			
Premium Cement	Fluid Weight:	14.8	lbm/gal
2.0% Calcium Chloride	Slurry Yield:	1.36	ft ³ /sk
	Total Mixing Fluid:	6.37	Gal/sk
	Top of Fluid:	2,300'	
	Calculated Fill:	500'	
	Volume:	86.69	bbl
	Proposed Sacks:	360	sks

Job Recommendation	Production Casing		
Lead Cement - (6313' - 2300')			
Tuned Light [™] System	Fluid Weight:	11.0	lbm/gal
	Slurry Yield:	2.31	ft ³ /sk
	Total Mixing Fluid:	10.65	Gal/sk
	Top of Fluid:	2,300'	
	Calculated Fill:	4,013'	
	Volume:	393.30	bbl
	Proposed Sacks:	960	sks
Tail Cement - (8848' - 6313')			
Econocem TM System	Fluid Weight:	13.5	lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield:	1.42	ft ³ /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid:		Gal/sk
	Top of Fluid:	6,313'	
	Calculated Fill:	2,535'	
	Volume:		bbl
	Proposed Sacks:	990	sks

PRESSURE CONTROL EQUIPMENT – Schematic Attached

A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer. The blow out preventer will be equipped as follows:

- 1. One (1) blind ram (above).
- 2. One (1) pipe ram (below).
- 3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
- 4. 3-inch diameter choke line.
- 5. Two (2) choke line valves (3-inch minimum).
- 6. Kill line (2-inch minimum).
- 7. Two (2) chokes with one (1) remotely controlled from the rig floor.
- 8. Two (2) kill line valves, and a check valve (2-inch minimum).
- 9. Upper and lower kelly cock valves with handles available.
- 10. Safety valve(s) & subs to fit all drill string connections in use.
- 11. Inside BOP or float sub available.
- 12. Pressure gauge on choke manifold.
- 13. Fill-up line above the uppermost preventer.

B. Pressure Rating: 5,000 psi

C. Testing Procedure:

Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

- 1. When the annular preventer is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yieldstrength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirmentsof the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

- 1. When the BOP is initially installed;
- 2. Whenever any seal subject to test pressure is broken;
- 3. Following related repairs; and
- 4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

D. Choke Manifold Equipment:

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

E. Accumulator:

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

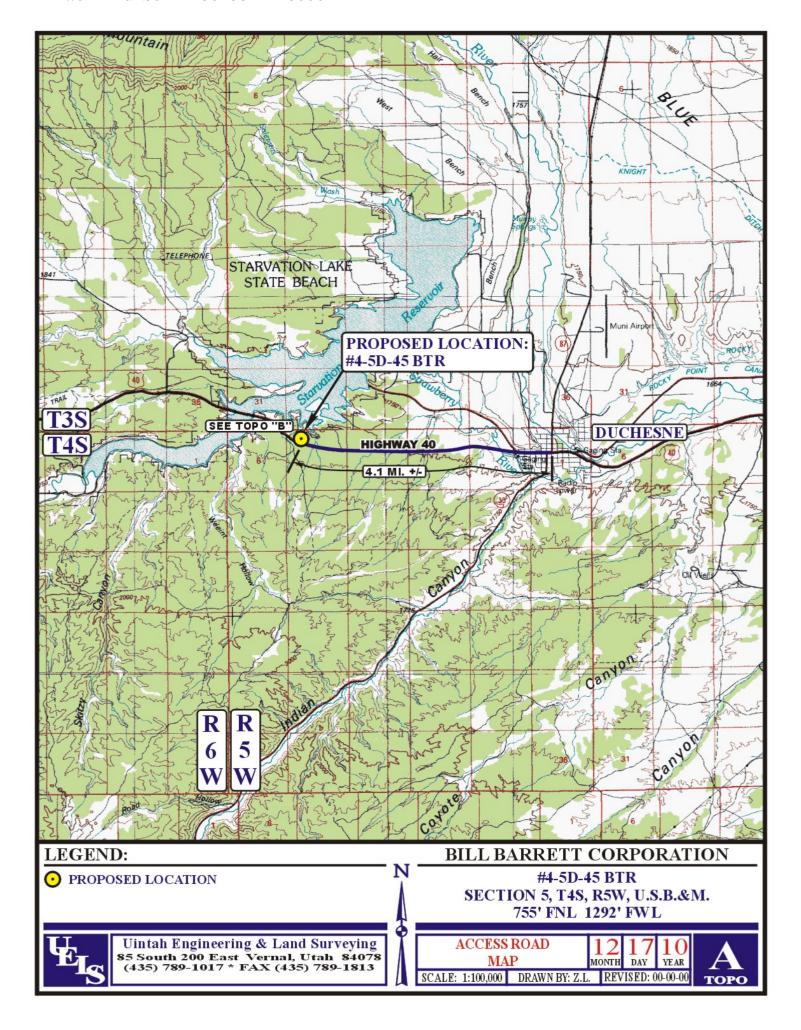
A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

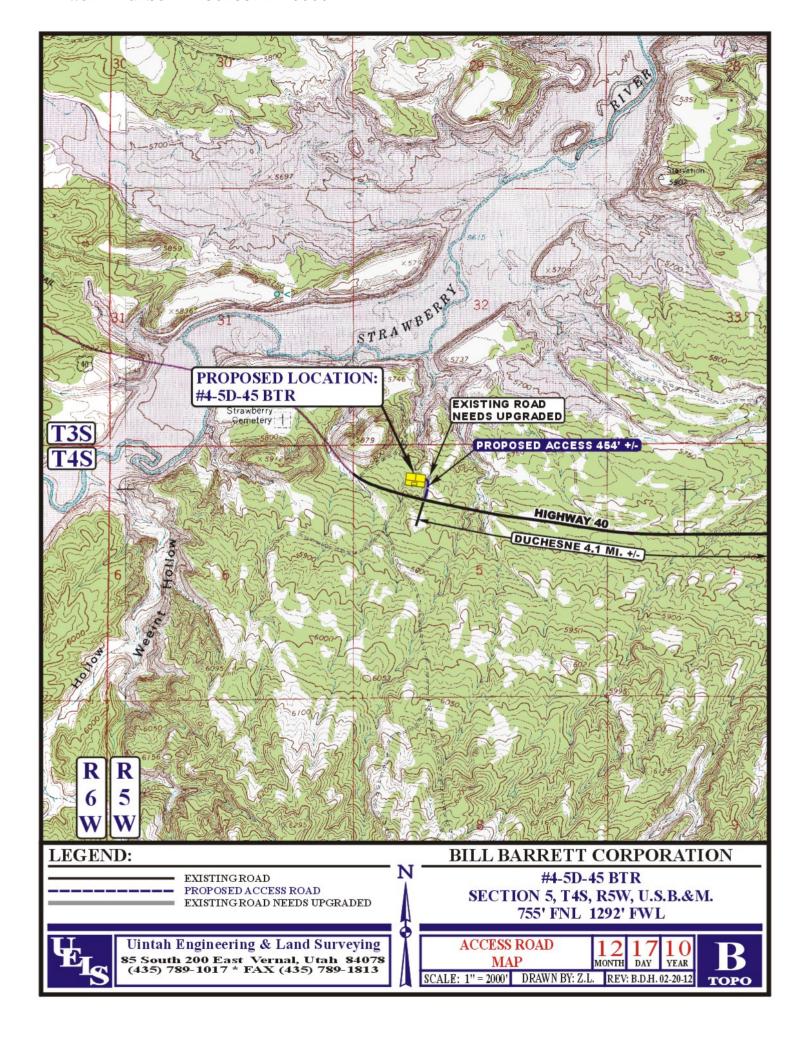
Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

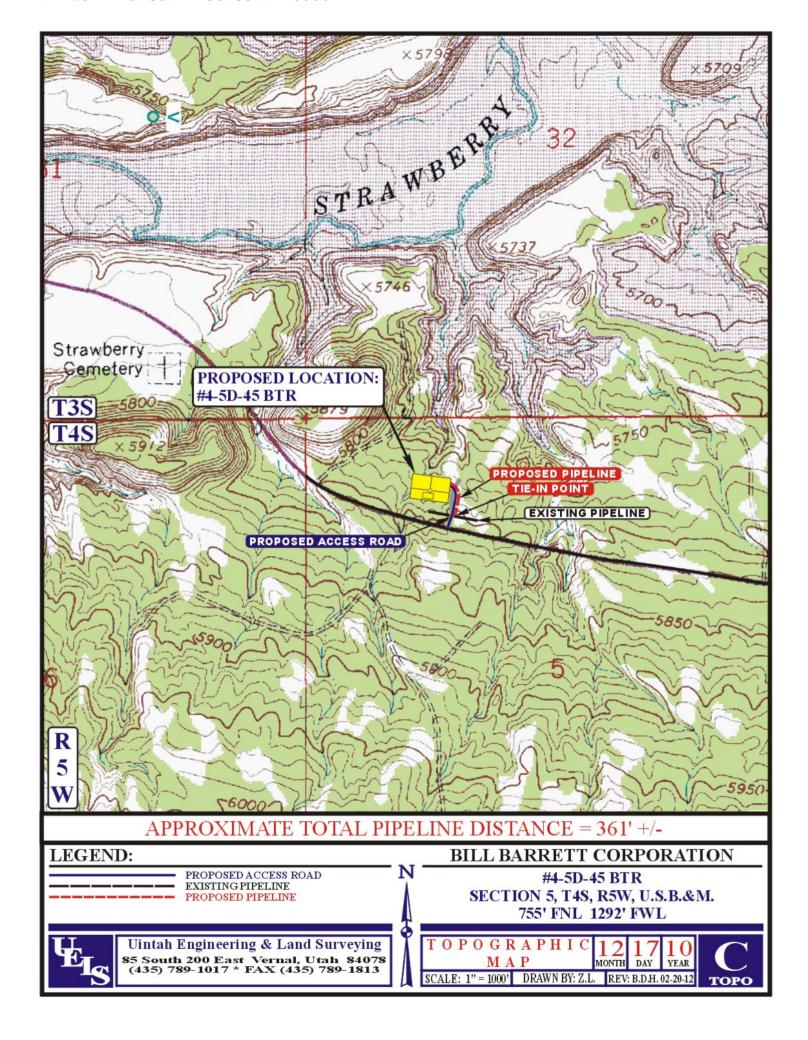
F. Miscellaneous Information:

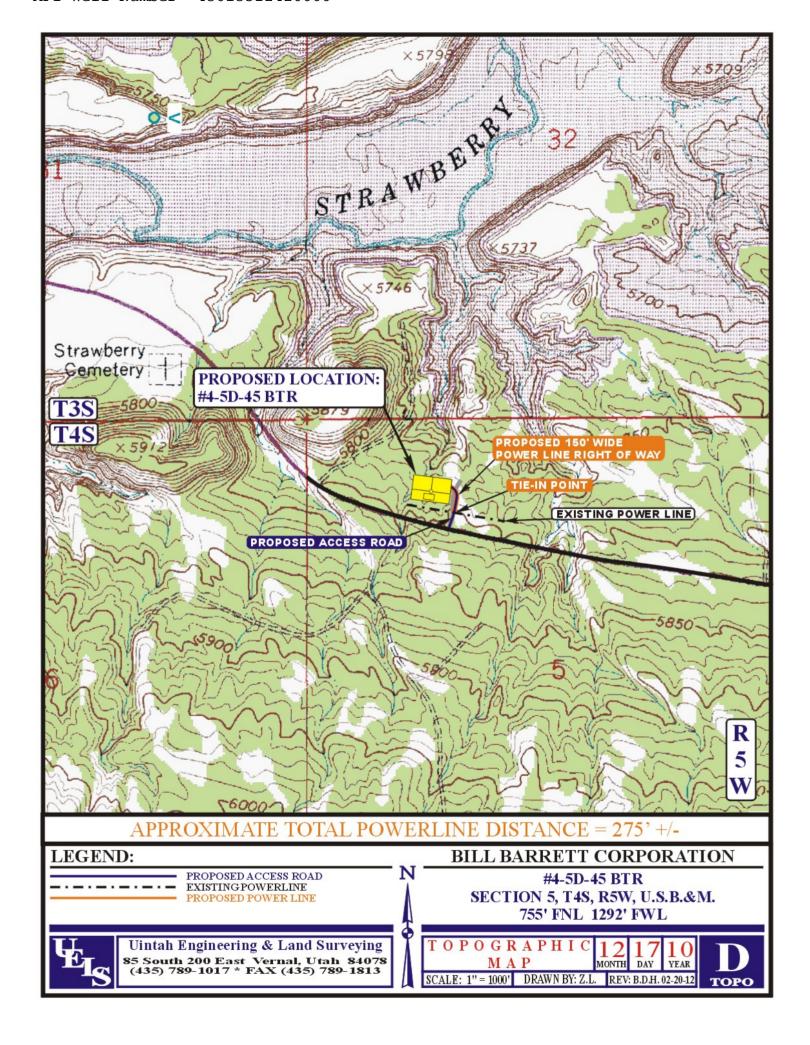
The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.









API Well Number: 43013512420000 **Bill Barrett Corporation**

COMPANY DETAILS: BILL BARRETT CORP

Calculation Method: Minimum Curvature

Error System: ISCWSA

Scan Method: Closest Approach 3D Error Surface: Elliptical Conic Warning Method: Error Ratio

Uteland Butte

-1250

4-5D PBHL

1250

Vertical Section at 263.38° (2500 ft/in)

2500

3750

5000

Wasatch

CR 3

CR 4A

7500

8750

10000

CR 2

CR 4

CR 5

-3750

CR 6

-2500

SITE DETAILS: 4-5D-45 BTR

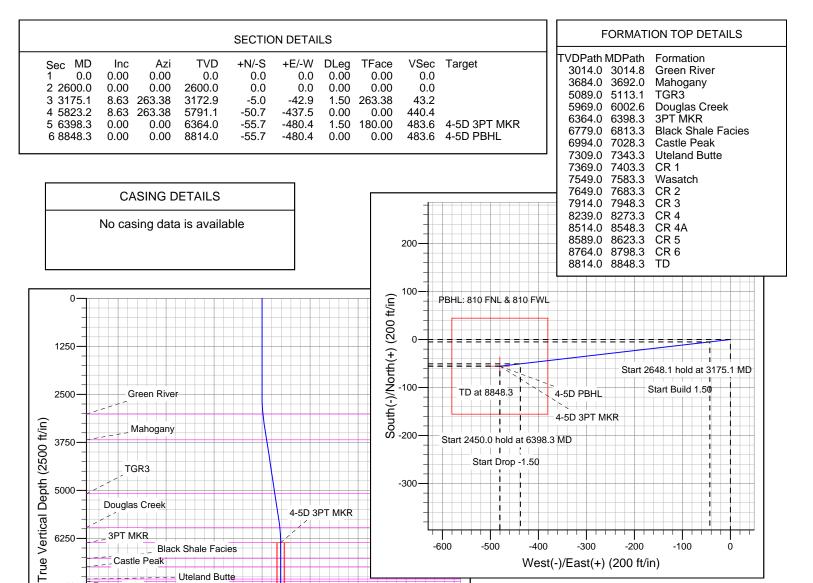
Blacktail Ridge

Site Centre Latitude: 40° 10' 2.280 N

Longitude: 110° 28' 41.671 W

Positional Uncertainity: 0.0 Convergence: 0.65 Local North: True

WELLBORE TARGET DETAILS (LAT/LONG)									
	TVD 4-5D 3PT MKR6364.0 4-5D PBHL 8814.0	+N/-S -55.7 -55.7		Latitude 0' 1.729 1N 0° 28' 4'	Longitude 7.860 W 7.860 W Rectangle (Shape Rectangle (Sides: L200.0 W200.0			



Azimuths to True North Magnetic North: 11.44°

Magnetic Field Strength: 52229.0snT Dip Angle: 65.80° Date: 11/30/2011 Model: IGRF2010

Bill Barrett Corp

Planning Report

Compass Database:

Company: **BILL BARRETT CORP**

Project: DUCHESNE COUNTY, UT (NAD 27) 4-5D-45 BTR Site: Well: 4-5D-45 BTR

Wellbore: 4-5D-45 BTR Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well 4-5D-45 BTR

KB @ 5797.0ft (Original Well Elev) KB @ 5797.0ft (Original Well Elev)

True

Minimum Curvature

Project DUCHESNE COUNTY, UT (NAD 27)

US State Plane 1927 (Exact solution) Map System: NAD 1927 (NADCON CONUS)

Geo Datum:

Utah Central 4302 Map Zone:

System Datum: Ground Level

Site 4-5D-45 BTR

Northing: 669,615.49 ft Site Position: Latitude: 40° 10' 2.280 N From: Lat/Long Easting: 2,285,536.19ft Longitude: 110° 28' 41.671 W **Position Uncertainty:** 0.0 ft Slot Radius: **Grid Convergence:** 0.65 °

Well 4-5D-45 BTR

Well Position +N/-S 0.0 ft Northing: 669,615.49 ft Latitude: 40° 10' 2.280 N +E/-W 0.0 ft Easting: 2,285,536.19 ft Longitude: 110° 28' 41.671 W **Position Uncertainty** 0.0 ft Wellhead Elevation: ft **Ground Level:** 5,782.0 ft

Wellbore 4-5D-45 BTR Field Strength Magnetics **Model Name** Sample Date Declination **Dip Angle** (nT) (°) (°) IGRF2010 11/30/2011 11.44 65.80 52.229

Design Design #1 **Audit Notes:** Version: Phase: PLAN Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.0 263.38 0.0 0.0

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,175.1	8.63	263.38	3,172.9	-5.0	-42.9	1.50	1.50	0.00	263.38	
5,823.2	8.63	263.38	5,791.1	-50.7	-437.5	0.00	0.00	0.00	0.00	
6,398.3	0.00	0.00	6,364.0	-55.7	-480.4	1.50	-1.50	0.00	180.00	4-5D 3PT MKR
8,848.3	0.00	0.00	8,814.0	-55.7	-480.4	0.00	0.00	0.00	0.00	4-5D PBHL

DUCHESNE COUNTY, UT (NAD 27)

Bill Barrett Corp

Planning Report

Database: Compass

Project:

Company: BILL BARRETT CORP

 Site:
 4-5D-45 BTR

 Well:
 4-5D-45 BTR

 Wellbore:
 4-5D-45 BTR

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well 4-5D-45 BTR

KB @ 5797.0ft (Original Well Elev) KB @ 5797.0ft (Original Well Elev)

True

Minimum Curvature

Design:	Design #1								
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	1.50	263.38	2,700.0	-0.2	-1.3	1.3	1.50	1.50	0.00
2,800.0	3.00	263.38	2,799.9	-0.6	-5.2	5.2	1.50	1.50	0.00
2,900.0	4.50	263.38	2,899.7	-1.4	-11.7	11.8	1.50	1.50	0.00
3,000.0	6.00	263.38	2,999.3	-2.4	-20.8	20.9	1.50	1.50	0.00
3,014.8	6.22	263.38	3,014.0	-2.6	-22.4	22.5	1.50	1.50	0.00
Green River	7.50	000.00	0.000.0	0.0	00.5	00.7	4.50	4.50	0.00
3,100.0 3,175.1	7.50 8.63	263.38 263.38	3,098.6 3,172.9	-3.8 -5.0	-32.5 -42.9	32.7 43.2	1.50 1.50	1.50 1.50	0.00 0.00
3,200.0	8.63	263.38	3,172.9	-5.4	-42.9 -46.6	46.9	0.00	0.00	0.00
3,300.0	8.63	263.38	3,296.4	-7.1	-61.5	61.9	0.00	0.00	0.00
3,400.0 3,500.0	8.63 8.63	263.38 263.38	3,395.3 3,494.2	-8.9 -10.6	-76.4 -91.3	76.9 91.9	0.00 0.00	0.00 0.00	0.00 0.00
3,600.0	8.63	263.38	3,593.0	-10.0	-106.2	106.9	0.00	0.00	0.00
3,692.0	8.63	263.38	3,684.0	-13.9	-119.9	120.7	0.00	0.00	0.00
Mahogany	2.23	_55.55	-,00				0.00	0.00	2.30
3,700.0	8.63	263.38	3,691.9	-14.1	-121.1	121.9	0.00	0.00	0.00
3,800.0 3,900.0	8.63 8.63	263.38 263.38	3,790.8 3,889.6	-15.8 -17.5	-136.0 -150.9	136.9 151.9	0.00 0.00	0.00 0.00	0.00 0.00
4,000.0	8.63	263.38 263.38	3,889.6	-17.5 -19.2	-150.9 -165.8	166.9	0.00	0.00	0.00
4,100.0	8.63	263.38	4,087.4	-21.0	-180.7	181.9	0.00	0.00	0.00
			4,186.2	-22.7					0.00
4,200.0 4,300.0	8.63 8.63	263.38 263.38	4,186.2 4,285.1	-22.7 -24.4	-195.6 -210.5	196.9 211.9	0.00 0.00	0.00 0.00	0.00
4,400.0	8.63	263.38	4,384.0	-24.4 -26.1	-210.5	211.9	0.00	0.00	0.00
4,500.0	8.63	263.38	4,482.8	-27.9	-240.3	241.9	0.00	0.00	0.00
4,600.0	8.63	263.38	4,581.7	-29.6	-255.2	256.9	0.00	0.00	0.00
4,700.0	8.63	263.38	4,680.6	-31.3	-270.1	271.9	0.00	0.00	0.00
4,800.0	8.63	263.38	4,779.4	-33.1	-270.1	286.9	0.00	0.00	0.00
1,000.0	0.00	_55.55	.,,,,,	00.1	200.0		0.00	0.00	2.30

Bill Barrett Corp

Planning Report

Database: Compass

Company: BILL BARRETT CORP

Project: DUCHESNE COUNTY, UT (NAD 27)

 Site:
 4-5D-45 BTR

 Well:
 4-5D-45 BTR

 Wellbore:
 4-5D-45 BTR

 Design:
 Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well 4-5D-45 BTR

KB @ 5797.0ft (Original Well Elev) KB @ 5797.0ft (Original Well Elev)

True

Minimum Curvature

esign:	Design #1								
anned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,900.0	8.63	263.38	4,878.3	-34.8	-299.9	301.9	0.00	0.00	0.00
5,000.0	8.63	263.38	4,977.2	-36.5	-314.8	316.9	0.00	0.00	0.00
5,100.0	8.63	263.38	5,076.1	-38.2	-329.7	331.9	0.00	0.00	0.00
5,113.1	8.63	263.38	5,089.0	-38.5	-331.7	333.9	0.00	0.00	0.00
	0.03	203.30	3,009.0	-30.3	-331.7	333.9	0.00	0.00	0.00
TGR3 5,200.0	0.62	262.20	E 174 0	-40.0	-344.6	346.9	0.00	0.00	0.00
5,200.0	8.63 8.63	263.38 263.38	5,174.9 5,273.8	-40.0 -41.7	-344.6 -359.5	346.9 361.9	0.00 0.00	0.00 0.00	0.00
5,400.0		263.38			-374.4	376.9			
,	8.63		5,372.7	-43.4			0.00	0.00	0.00
5,500.0	8.63	263.38	5,471.5	-45.2	-389.3	391.9	0.00	0.00	0.00
5,600.0	8.63	263.38	5,570.4	-46.9	-404.2	406.9	0.00	0.00	0.00
5,700.0	8.63	263.38	5,669.3	-48.6	-419.1	421.9	0.00	0.00	0.00
5,800.0	8.63	263.38	5,768.1	-50.3	-434.0	436.9	0.00	0.00	0.00
5,823.2	8.63	263.38	5,791.1	-50.7	-437.5	440.4	0.00	0.00	0.00
5,900.0	7.47	263.38	5,867.1	-52.0	-448.2	451.2	1.50	-1.50	0.00
6,000.0	5.97	263.38	5,966.4	-53.3	-459.8	462.9	1.50	-1.50	0.00
6,002.6	5.97 5.94	263.38	5,966.4 5,969.0	-53.4	-459.6 -460.1	462.9	1.50	-1.50 -1.50	0.00
,		203.36	5,909.0	-55.4	-400.1	403.1	1.50	-1.50	0.00
Douglas Cre		000.00	0.000.0		400.0	470.0	4.50	4.50	2.22
6,100.0	4.47	263.38	6,066.0	-54.4	-468.8	472.0	1.50	-1.50	0.00
6,200.0	2.97	263.38	6,165.8	-55.1	-475.3	478.5	1.50	-1.50	0.00
6,300.0	1.47	263.38	6,265.7	-55.6	-479.1	482.4	1.50	-1.50	0.00
6,398.3	0.00	0.00	6,364.0	-55.7	-480.4	483.6	1.50	-1.50	0.00
3PT MKR - 4	-5D 3PT MKR								
6,400.0	0.00	0.00	6,365.7	-55.7	-480.4	483.6	0.00	0.00	0.00
6,500.0	0.00	0.00	6,465.7	-55.7	-480.4	483.6	0.00	0.00	0.00
6,600.0	0.00	0.00	6,565.7	-55.7	-480.4	483.6	0.00	0.00	0.00
6,700.0	0.00	0.00	6,665.7	-55.7	-480.4	483.6	0.00	0.00	0.00
6 900 0	0.00	0.00	6.765.7	-55.7	400.4	402.6	0.00	0.00	0.00
6,800.0 6,813.3	0.00 0.00	0.00 0.00	6,765.7 6,779.0	-55.7 -55.7	-480.4 -480.4	483.6 483.6	0.00 0.00	0.00 0.00	0.00 0.00
		0.00	0,779.0	-33.7	-400.4	403.0	0.00	0.00	0.00
Black Shale		0.00	0.005.7	<i></i>	400.4	400.0	0.00	0.00	0.00
6,900.0 7,000.0	0.00 0.00	0.00 0.00	6,865.7 6,965.7	-55.7 -55.7	-480.4 -480.4	483.6 483.6	0.00	0.00 0.00	0.00
7,000.0	0.00	0.00	6,965.7	-55.7 -55.7	-480.4 -480.4	463.6 483.6	0.00 0.00	0.00	0.00 0.00
	0.00	0.00	0,994.0	-55.7	-400.4	403.0	0.00	0.00	0.00
Castle Peak									
7,100.0	0.00	0.00	7,065.7	-55.7	-480.4	483.6	0.00	0.00	0.00
7,200.0	0.00	0.00	7,165.7	-55.7	-480.4	483.6	0.00	0.00	0.00
7,300.0	0.00	0.00	7,265.7	-55.7	-480.4	483.6	0.00	0.00	0.00
7,343.3	0.00	0.00	7,309.0	-55.7	-480.4	483.6	0.00	0.00	0.00
Uteland But	e								
7,400.0	0.00	0.00	7,365.7	-55.7	-480.4	483.6	0.00	0.00	0.00
7,403.3	0.00	0.00	7,369.0	-55.7	-480.4	483.6	0.00	0.00	0.00
CR 1	0.00	0.00	7,508.0	-55.1		- 00.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,465.7	-55.7	-480.4	483.6	0.00	0.00	0.00
7,500.0 7,583.3	0.00	0.00	7,465.7 7,549.0	-55.7 -55.7	-480.4 -480.4	483.6 483.6	0.00	0.00	0.00
	0.00	0.00	7,548.0	-33.1	-+00.4	+00.0	0.00	0.00	0.00
Wasatch	0.00	0.00	7 565 7	EE 7	400 4	402.6	0.00	0.00	0.00
7,600.0 7,683.3	0.00	0.00	7,565.7	-55.7	-480.4 480.4	483.6 483.6	0.00	0.00	
,	0.00	0.00	7,649.0	-55.7	-480.4	483.6	0.00	0.00	0.00
CR 2									
7,700.0	0.00	0.00	7,665.7	-55.7	-480.4	483.6	0.00	0.00	0.00
7,800.0	0.00	0.00	7,765.7	-55.7	-480.4	483.6	0.00	0.00	0.00
7,900.0	0.00	0.00	7,865.7	-55.7	-480.4	483.6	0.00	0.00	0.00
7,948.3	0.00	0.00	7,914.0	-55.7	-480.4	483.6	0.00	0.00	0.00
CR 3									
8,000.0	0.00	0.00	7,965.7	-55.7	-480.4	483.6	0.00	0.00	0.00

DUCHESNE COUNTY, UT (NAD 27)

Bill Barrett Corp

Planning Report

Database: Compass

Project:

Company: BILL BARRETT CORP

 Site:
 4-5D-45 BTR

 Well:
 4-5D-45 BTR

 Wellbore:
 4-5D-45 BTR

 Design:
 Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well 4-5D-45 BTR

KB @ 5797.0ft (Original Well Elev) KB @ 5797.0ft (Original Well Elev)

True

Minimum Curvature

nned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,100.0 8,200.0 8,273.3	0.00 0.00 0.00	0.00 0.00 0.00	8,065.7 8,165.7 8,239.0	-55.7 -55.7 -55.7	-480.4 -480.4 -480.4	483.6 483.6 483.6	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
CR 4									
8,300.0 8,400.0	0.00 0.00	0.00 0.00	8,265.7 8,365.7	-55.7 -55.7	-480.4 -480.4	483.6 483.6	0.00 0.00	0.00 0.00	0.00 0.00
8,500.0 8,548.3	0.00 0.00	0.00 0.00	8,465.7 8,514.0	-55.7 -55.7	-480.4 -480.4	483.6 483.6	0.00 0.00	0.00 0.00	0.00 0.00
CR 4A									
8,600.0 8,623.3	0.00 0.00	0.00 0.00	8,565.7 8,589.0	-55.7 -55.7	-480.4 -480.4	483.6 483.6	0.00 0.00	0.00 0.00	0.00 0.00
CR 5									
8,700.0	0.00	0.00	8,665.7	-55.7	-480.4	483.6	0.00	0.00	0.00
8,798.3	0.00	0.00	8,764.0	-55.7	-480.4	483.6	0.00	0.00	0.00
CR 6									
8,800.0 8,848.3	0.00 0.00	0.00 0.00	8,765.7 8,814.0	-55.7 -55.7	-480.4 -480.4	483.6 483.6	0.00 0.00	0.00 0.00	0.00 0.00
TD - 4-5D PB	HL								

mations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	3,014.8	3,014.0	Green River		0.00	
	3,692.0	3,684.0	Mahogany		0.00	
	5,113.1	5,089.0	TGR3		0.00	
	6,002.6	5,969.0	Douglas Creek		0.00	
	6,398.3	6,364.0	3PT MKR		0.00	
	6,813.3	6,779.0	Black Shale Facies		0.00	
	7,028.3	6,994.0	Castle Peak		0.00	
	7,343.3	7,309.0	Uteland Butte		0.00	
	7,403.3	7,369.0	CR 1		0.00	
	7,583.3	7,549.0	Wasatch		0.00	
	7,683.3	7,649.0	CR 2		0.00	
	7,948.3	7,914.0	CR 3		0.00	
	8,273.3	8,239.0	CR 4		0.00	
	8,548.3	8,514.0	CR 4A		0.00	
	8,623.3	8,589.0	CR 5		0.00	
	8,798.3	8,764.0	CR 6		0.00	
	8,848.3	8,814.0	TD		0.00	

SURFACE USE PLAN

BILL BARRETT CORPORATION

4-5D-45 BTR Well Pad

Lot 4 (NW NW), 755' FNL and 1292' FWL, Section 5, T4S-R5W, USB&M (surface hole) Lot 4 (NW NW), 810' FNL and 810' FWL, Section 5, T4S-R5W, USB&M (bottom hole) Duchesne County, Utah

The onsite inspection for this pad occurred on August 18, 2011. Site specific conditions or changes as a result of that onsite are indicated below. Plat changes requested at the onsite are reflected within this APD.

- a) BBC committed to closed-loop drilling because of close proximity to Starvation Reservoir:
- b) Initial site moved to the current site to avoid cultural resources;

The excavation contractor would be provided with an approved copy of the surface use plan of operations before initiating construction.

1. Existing Roads:

- a. The proposed well site is located approximately 4.2 miles west of Duchesne, Utah. Maps and directions reflecting the route to the proposed well site are included (see Topographic maps A and B).
- b. The existing State Highway 40 would be utilized from Duchesne for 4.1 miles to an existing approach that provides access to the planned new access road.
- c. Project roads would require routine year-round maintenance to provide year-round access. Maintenance would include inspections, reduction of ruts and holes, maintenance to keep water off the road, replacement of surfacing materials, and clearing of sediment blocking ditches and culverts. Should snow removal become necessary, roads would be cleared with a motor grader and snow would be stored along the down gradient side to prohibit runoff onto the road. Aggregate would be used as necessary to maintain a solid running surface and minimize dust generation.
- d. Vehicle operators would obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions. Travel would be limited to the existing access roads and proposed access road.
- e. The use of roads under State and Duchesne County Road Department maintenance are necessary to access the project area with no improvements proposed. A Utah Department of Transportation road encroachment is required for this project and is submitted and pending approval at this time.
- f. All existing roads would be maintained and kept in good repair during all phases of operation.

Bill Barrett Corporation Surface Use Plan #4-5D-45 BTR Duchesne County, UT

2. <u>Planned Access Road</u>:

- a. Approximately 454 feet of new access road trending north is planned from Highway 40 (see Topographic Map B). The access road crosses entirely Ute Tribe surface.
- b. The planned access road would be constructed to a 30-foot ROW width with an 18-foot travel surface. See section 12.d. below for disturbance estimates.
- c. New road construction and improvements of existing roads would typically require the use of motor graders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- e. A maximum grade of 10% would be maintained throughout the project with minimum cuts and fills, as necessary, to access the well.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private or State of Utah lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.
- g. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed. Vegetation removed from the disturbed area would also be re-spread to provide protection, nutrient recycling, and a seed source for reclamation.
- h. Turnouts are not proposed.
- i. No culverts or low-water crossings are anticipated. Adequate drainage structures, where necessary, would be incorporated into the remainder of the road to prevent soil erosion and accommodate all-weather traffic.

Bill Barrett Corporation Surface Use Plan #4-5D-45 BTR Duchesne County, UT

- j. One cattleguard/cow gate combination at the UDOT right-of-way fence is anticipated at this time.
- k. Surface disturbance and vehicular travel would be limited to the approved location access road. Adequate signs would be posted, as necessary, to warn the public of project related traffic.
- All access roads and surface disturbing activities would conform to the appropriate standard, **no higher than necessary**, to accommodate their intended function adequately as outlined in the Bureau of Land Management and Forest Service publication: <u>Surface Operating Standards for Oil and Gas Exploration</u> and Development, Fourth Edition – Revised 2007.
- m. The operator would be responsible for all maintenance needs of the new access road.

3. <u>Location of Existing Wells (see One-Mile Radius Map):</u>

a. Following is a list of wells with surface hole locations within a one-mile radius of the proposed pad:

i.	water wells	none
ii.	injection wells	none
iii.	disposal wells	none
iv.	drilling wells	none
v.	temp shut-in wells	none
vi.	producing wells	four
	abandoned wells	one

4. <u>Location of Production Facilities</u>

- a. Surface facilities would consist of a wellhead, separator, gas meter, combustor, (1) 500 gal methanol tank, (1) 500 glycol tank, (3) 500 bbl oil tanks, (1) 500 bbl water tank, (1) 500 bbl test tank, (1) 1000 gal propane tank, a pumping unit or Roto-flex unit or ESP or gas lift unit, electrical or with a natural gas or diesel fired motor, solar panels, solar chemical and methanol pumps and one trace pump. See attached proposed facility diagram.
- b. Most wells would be fitted with a pump jack or Roto-flex unit or ESP or gas lift to assist liquid production. The prime mover for pump jacks or Roto-flex units would be small (100 horsepower or less), electric motor or natural gas or diesel fired internal combustion engines. If a gas lift is installed, it would be set on a 10 ft x 25 ft pad and the prime mover would be a natural gas-fired internal combustion engine rated at 200 horsepower or less or an electric compressor of similar horsepower powered by electricity.

Bill Barrett Corporation Surface Use Plan #4-5D-45 BTR Duchesne County, UT

- c. The tank battery would be surrounded by a secondary containment berm of sufficient capacity to contain 1.1 times the entire capacity of the largest single tank and sufficient freeboard to contain precipitation. All loading lines and valves would be placed inside the berm surrounding the tank battery or would utilize catchment basins to contain spills. All liquid hydrocarbon production and measurement shall conform to the provisions of 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4 for the measurement of oil.
- d. Gas meter run(s) would be constructed and located on lease within 500 feet of the wellheads. Meter runs would be housed and/or fenced. As practicably feasible, meters would be equipped with remote telemetry monitoring systems. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- e. A combustor may be installed at this location for control of associated condensate tank emissions. A combustor ranges from 24 inches to 48 inches wide and is approximately 27 ft tall. Combustor placement would be on existing disturbance.
- f. Approximately 361 feet of pipeline corridor (see Topographic Map C) containing up to three lines (one gas pipeline up to 8 inch in diameter, one water line up to 4 inch in diameter and one residue line up to 4 inch in diameter) is proposed trending south to the existing BTR pipeline corridor. Pipelines would be constructed of steel, polyethylene or fiberglass and would connect to the proposed pipeline servicing nearby BBC wells. The pipeline crosses entirely Ute Tribe surface.
- g. The new segment of gas pipeline would be surface laid within a 30 foot wide pipeline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.
- h. Construction of the ROW would temporarily utilize the 30 foot disturbed width for the road for a total disturbed width of 60 foot for the road and pipeline corridors. The use of the proposed well site and access roads would facilitate the staging of the pipeline construction.
- Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the reestablishment of the native plant community.
- j. All permanent above-ground structures would be painted a flat, non-reflective Beetle Green color, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.

Bill Barrett Corporation Surface Use Plan #4-5D-45 BTR Duchesne County, UT

- k. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any modifications to proposed facilities would be reflected in the site security diagram submitted.
- 1. The site would require periodic maintenance to ensure that drainages are kept open and free of debris, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

5. <u>Location and Type of Water Supply:</u>

a. Water for the drilling and completion would be trucked from any of the following locations:

Water Right No. and Application or Change No.	Applicant	Allocation	Date	Point of Diversion	Source
43-180	Duchesne City	5 cfs	8/13/2004	Knight	Duchesne
	Water Service			Diversion Dam	River
	District				
43-1202, Change a13837	Myton City	5.49 cfr and	3/21/1986	Knight	Duchesne
		3967 acre feet		Diversion Dam	River
43-10444, Appln	Duchesne	2 cfs	1994	Ditch at	Cow Canyon
A57477	County Upper			Source	Spring
	Country Water				
43-10446, Appln F57432	Duchesne	1.58 cfs	1994	Ditch at	Cow Canyon
	County Upper			Source	Spring
	Country Water				
43-1273, Appln A17462	J.J.N.P.	7 cfs	1946	Strawberry	Strawberry
	Company			River	River
43-1273, Appln t36590	J.J.N.P.	4 cfs	6/03/2010	Strawberry	Strawberry
	Company			River	River
43-2505, Appln t37379	McKinnon	1.3 cfs	4/28/2011	Pumped from	Water Canyon
	Ranch			Sec, 17,	Lake
	Properties, LC			T4SR6W	
43-12415, Change	Peatross	1.89 cfs	09/2011	Dugout Pond	Strawberry
A17215a	Ranch, LLC				River

- b. No new water well is proposed with this application.
- c. Should additional water sources be pursued they would be properly permitted through the State of Utah Division of Water Rights.
- d. Water use would vary in accordance with the formations to be drilled but would be up to approximately 5.41 acre feet for drilling and completion operations.

Bill Barrett Corporation Surface Use Plan #4-5D-45 BTR Duchesne County, UT

6. <u>Source of Construction Material:</u>

- a. The use of materials would conform to 43 CFR 3610.2-3.
- b. No construction materials would be removed from the lease or EDA area.
- c. If any additional gravel is required, it would be obtained from a local supplier having a permitted source of materials within the general area.

7. <u>Methods of Handling Waste Disposal:</u>

- a. All wastes associated with this application would be contained and disposed of utilizing approved facilities.
- b. This location will be drilled with a closed loop system. There will be a cuttings storage area instead of a reserve pit.
- c. The cuttings storage area would be lined with 20 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit.
- d. To deter livestock from entering the cuttings storage area, the three sides exterior to the location would be fenced before drilling starts. Following the conclusion of drilling and completion activities, the fourth side would also be fenced.
- e. Drill cuttings would be stored in the cuttings storage area and either hauled to an approved disposal facility or will be buried on-site.
- f. Produced fluids from the well other than water would be decanted into steel test tank(s) until such time as construction of production facilities is completed. Any oil that may be accumulated would be transferred to a permanent production tank. Produced water may be used in further drilling and completion activities, evaporated in the pit, or would be hauled to one of the state-approved disposal facilities below:

Disposal Facilities

- 1. RNI Industries, Inc. Pleasant Valley Disposal Pits, Sec. 25, 26, 35 & 36, T4S-R3W
- 2. Pro Water LLC Blue Bench 13-1 Disposal Well (43-013-30971) NENE, Sec. 13, T3S-R5W
- 3. RN Industries, Inc. Bluebell Disposal Ponds, Sec. 2, 4 & 9, T2S-R2W
- 4. Water Disposal, Inc. Harmston 1-32-A1 Disposal Well (43-013-30224), UTR #00707, Sec. 32, T1S-R1W

Bill Barrett Corporation Surface Use Plan #4-5D-45 BTR Duchesne County, UT

Disposal Facilities

- 5. Unified Water Pits Sec. 31, T2S-R4W
- 6. Iowa Tank Line Pits 8500 BLM Fence Road, Pleasant Valley
- g. Any salts and/or chemicals, which are an integral part of the drilling system, would be disposed of in the same manner as the drilling fluid.
- h. Any spills of oil, condensate, produced or frac water, drilling fluids, or other potentially deleterious substances would be recovered and either returned to its origin or disposed of at an approved disposal site, most likely in Duchesne, Utah.
- i. Chemicals on the EPA's Consolidated List of Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) may be used or stored in quantities over reportable quantities. In the course of drilling, BBC could potentially store and use diesel fuel, sand (silica), hydrochloric acid, and CO₂ gas, all described as hazardous substances in 40 CFR Part 302, Section 302.4, in quantities exceeding 10,000 pounds. In addition, natural gas condensate and crude oil and methanol may be stored or used in reportable quantities. Small quantities of retail products (paint/spray paints, solvents {e.g., WD-40}, and lubrication oil) containing non-reportable volumes of hazardous substances may be stored and used on site at any time. No extremely hazardous substances, as defined in 40 CFR 355, would be used, produced, stored, transported or disposed of in association with the drilling, testing or completion of the wells.
- j. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and nonflammable waste materials would be hauled to an approved landfill once a week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up everyday.
- k. Sanitary waste equipment and trash bins would be removed from the Project Area upon completion of access road or pipeline construction; following drilling and completion operations at an individual well pad; when worker housing is no longer needed; or as required.
- 1. A flare pit may be constructed a minimum of 110 feet from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed. BBC would flow back as much fluid and gas as possible into pressurized vessels,

Bill Barrett Corporation Surface Use Plan #4-5D-45 BTR Duchesne County, UT

separating the fluids from the gas. In some instances, due to the completion fluids utilized within the Project Area, it is not feasible to direct the flow stream from the wellbore through pressurized vessels. In such instances BBC proposes to direct the flow to the open top tanks until flow through the pressurized vessels is feasible. At which point the fluid would either be returned to the pit or placed into a tank(s). The gas would be directed to the flare pit, flare stack (each with a constant source of ignition), or may be directed into the sales pipeline.

m. Hydrocarbons would be removed from the cuttings storage area would as soon as practical. In the event immediate removal is not practical, the storage area would be flagged overhead or covered with wire or plastic mesh to protect migrating birds.

8. <u>Ancillary Facilities:</u>

- a. Garbage containers and portable toilets would be located on the well pad.
- b. On well pads where active drilling and completion is occurring, temporary housing would be provided on location for the well pad supervisor, geologist, tool pusher, and others that are required to be on location at all times. The well pad could include up to five single wide mobile homes or fifth wheel campers/trailers.
- c. A surface powerline corridor 275 feet in length is proposed for installation by third-party installer within a 150 foot wide powerline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.

9. Well Site Layout:

- a. The well would be properly identified in accordance with 43 CFR 3162.6.
- b. The pad layout, cross section diagrams and rig layout are enclosed (see Figures 1 and 2).
- c. The pad and road designs are consistent with industry specifications.
- d. The pad has been staked at its maximum size of 400 feet x 255 feet with a cuttings storage area size of 60 feet x 110 feet. See section 12.d below for disturbance estimates.
- e. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.
- f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.

Bill Barrett Corporation Surface Use Plan #4-5D-45 BTR Duchesne County, UT

- g. Use of erosion control measures, including proper grading to minimize slopes, diversion terraces and ditches, mulching, terracing, riprap, fiber matting, temporary sediment traps, and broad-based drainage dips or low water crossings would be employed by BBC as necessary and appropriate to minimize erosion and surface runoff during well pad construction and operation. Cut and fill slopes would be constructed such that stability would be maintained for the life of the activity.
- h. All cut and fill slopes would be such that stability can be maintained for the life of the activity.
- i. Diversion ditches would be constructed, if necessary, around the well site to prevent surface waters from entering the well site area.
- j. Water application may be implemented if necessary to minimize the amount of fugitive dust.
- k. All surface disturbing activities would be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

10. Plan for Restoration of the Surface:

- a. A site specific reclamation plan would be submitted, if requested, within 90 days of location construction to the surface managing agency.
- b. Site reclamation would be accomplished for portions of the well pad not required for the continued operation of the well on this pad within six months of completion, weather permitting.
- c. The operator would control noxious weeds along access road use authorizations and well site by spraying or mechanical removal, according to the Utah Noxious Weed Act and as set forth in the approved surface damage agreements.
- d. Rat and mouse holes would be filled and compacted from bottom to top immediately upon release of the drilling rig from location. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. The cuttings storage area would be allowed to dry prior to the commencement of backfilling work. No attempts would be made to backfill the storage area until it is free of standing water. Once dry, the liner would be torn and perforated before backfilling.
- e. The cuttings storage area and that portion of the location not needed for production facilities/operations would be recontoured to the approximate natural contours. Areas not used for production purposes would be backfilled and blended into the surrounding terrain, reseeded and erosion control measures installed. Mulching, erosion control measures and fertilization may be required to achieve acceptable stabilization. Back slopes and fore slopes would be

Bill Barrett Corporation Surface Use Plan #4-5D-45 BTR Duchesne County, UT

> reduced as practical and scarified with the contour. The reserved topsoil would be evenly distributed over the slopes and scarified along the contour. Slopes would be seeded with the Ute Tribe specified seed mix.

f. Topsoil salvaged from the drill site and stored for more than one year would be placed at the location indicated on the well site layout drawing and graded to a depth optimum to maintain topsoil viability, seeded with the Ute Tribe prescribed seed mixture and covered with mulch for protection from wind and water erosion and to discourage the invasion of weeds.

11. <u>Surface and Mineral Ownership:</u>

- a. Surface ownership Ute Indian Tribe 988 South 7500 East; Ft. Duchesne, Utah 84026; 435-725-4982.
- b. Mineral ownership Ute Indian Tribe 988 South 7500 East; Ft. Duchesne, Utah 84026; 435-725-4982.

12. Other Information:

- a. Montgomery Archeological Consultants has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Montgomery as MOAC Report No. 10-210- dated October 25, 2010.
- b. BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.
- c. Project personnel and contractors would be educated on and subject to the following requirements:
 - No dogs or firearms within the Project Area.
 - No littering within the Project Area.
 - Smoking within the Project Area would only be allowed in off-operator active locations or in specifically designated smoking areas. All cigarette butts would be placed in appropriate containers and not thrown on the ground or out windows of vehicles; personnel and contractors would abide by all fire restriction orders.
 - Campfires or uncontained fires of any kind would be prohibited.
 - Portable generators used in the Project Area would have spark arrestors.

Bill Barrett Corporation Surface Use Plan #4-5D-45 BTR Duchesne County, UT

d. Disturbance estimates:

Approximate Acreage Disturbances

Well Pad		3.239	acres
Access	454 feet	0.313	acres
Pipeline	361 feet	0.946	acres
Powerline	275 feet	0.248	acres

Total 4.746 acres

Bill Barrett Corporation Surface Use Plan #4-5D-45 BTR Duchesne County, UT

OPERATOR CERTIFICATION

Certification:

I hereby certify that I, or someone under my direction supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein would be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under Bill Barrett Corporations federal nationwide bond. These statements are subject to the provisions of 18 U.S.C. 1001 for the filings of false statements.

21st day of Fabruary 2012 Venessa Langmacher 2012 Executed this

Name:

Position Title: Senior Permit Analyst

1099 18th Street, Suite 2300, Denver, CO 80202 Address:

Telephone: 303-312-8172

vlangmacher@billbarrettcorp.com E-mail: Field Representative Kary Eldredge / Bill Barrett Corporation

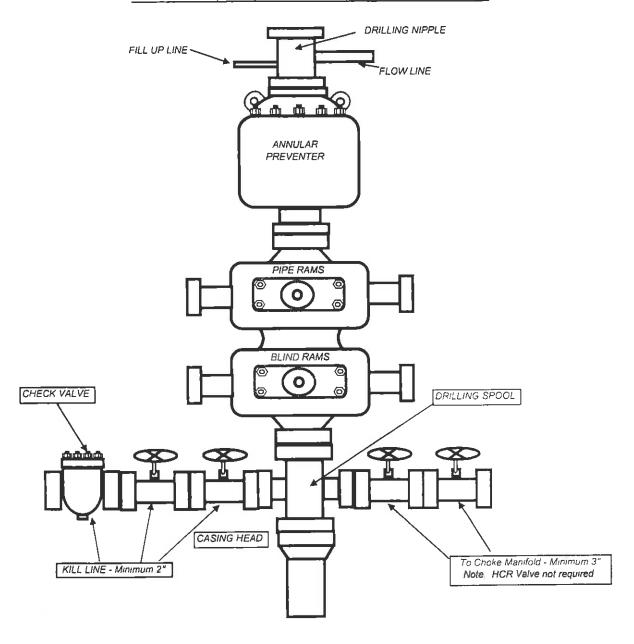
Address: 1820 W. Highway 40, Roosevelt, UT 84066 Telephone:

435-725-3515 (office); 435-724-6789 (mobile) E-mail: keldredge@billbarrettcorp.com

Venessa Langmacher, Senior Permit Analyst

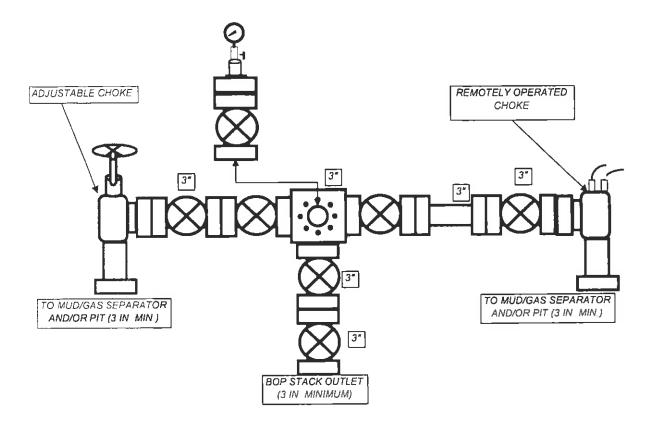
BILL BARRETT CORPORATION

TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



BILL BARRETT CORPORATION

TYPICAL 5,000 p.s.i. CHOKE MANIFOLD





February 21, 2012

Ms. Diana Mason – Petroleum Technician State of Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 P. O. Box 145801 Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11

Blacktail Ridge Area #4-5D-45 BTR Well

Surface: 755' FNL & 1,292' FWL, NWNW, Lot 4 of 5-T4S-R5W, USM Bottom Hole: 810' FNL & 810' FWL, NWNW, Lot 4 of 5-T4S-R5W, USM

Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill the above referenced well, we hereby submit this letter in accordance with Oil & Gas Conservation Rules R649-2, R649-3, R649-10 and R649-11, pertaining to the Location and Siting of Wells.

- The proposed location is within our Blacktail Ridge Area.
- BBC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area.
- The well will be drilled under an Exploration and Development Agreement between the Ute Indian Tribe and Ute Distribution Corporation. Ute Energy, LLC owns a right to participate in this well.
- BBC certifies that it is the working interest owner of all lands within 460 feet of the proposed well location, and together with Ute Energy, LLC, we own 100% of the working interest in these lands.

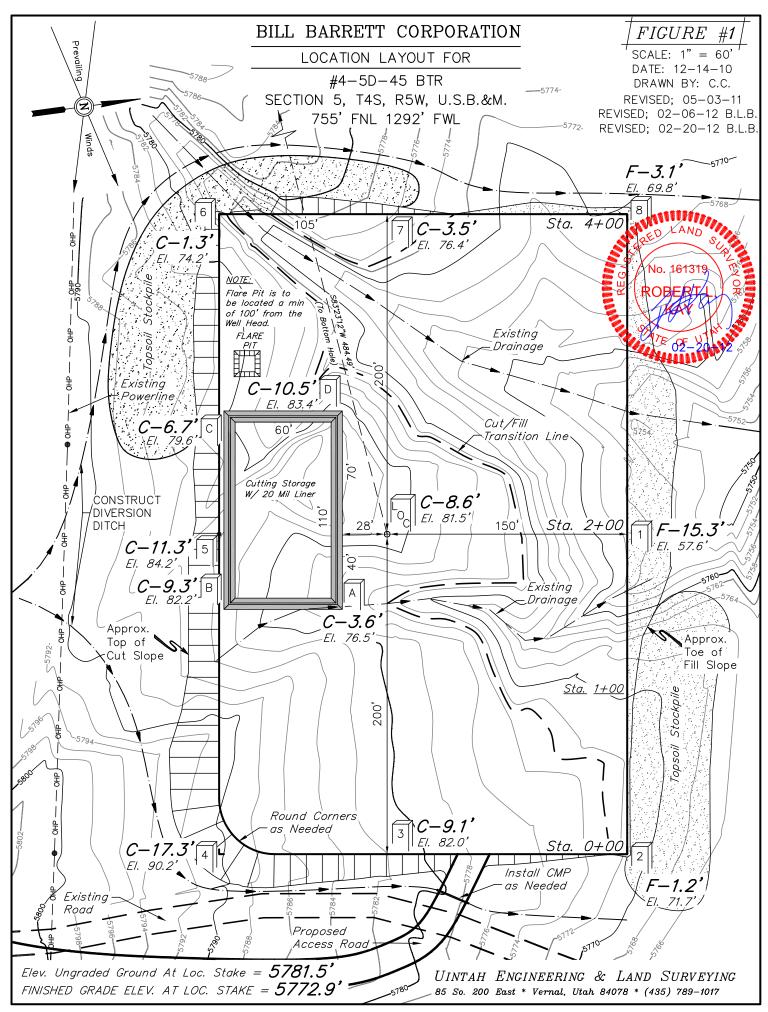
Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. Should you have any questions or need further information, please contact me at 303-312-8544.

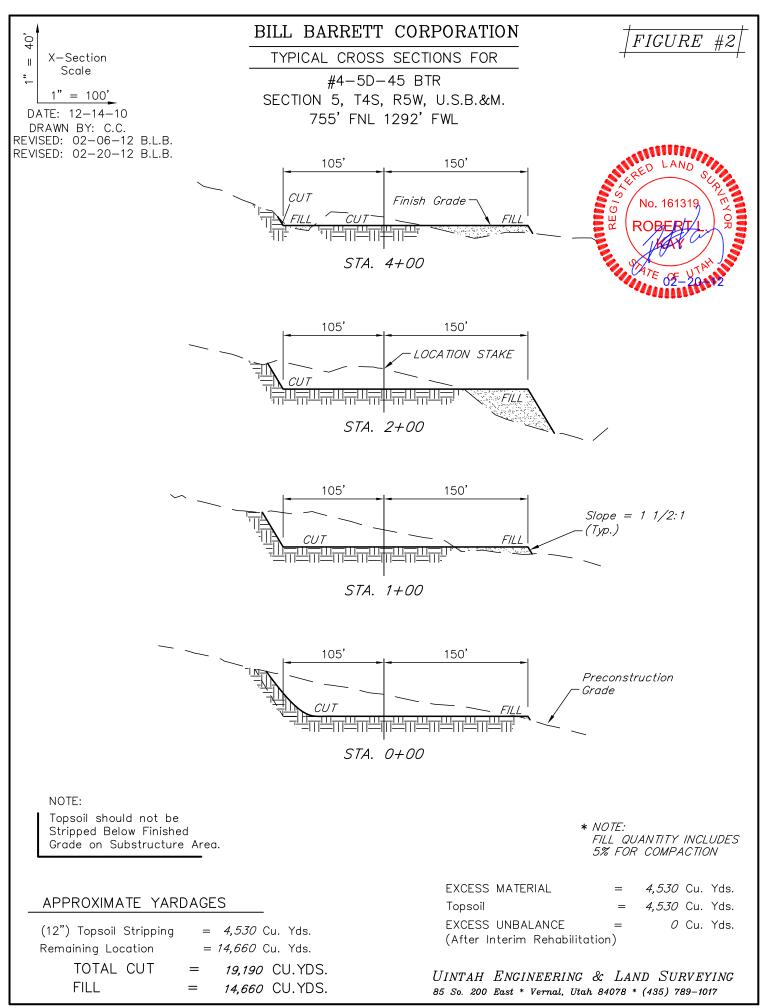
Sincerely.

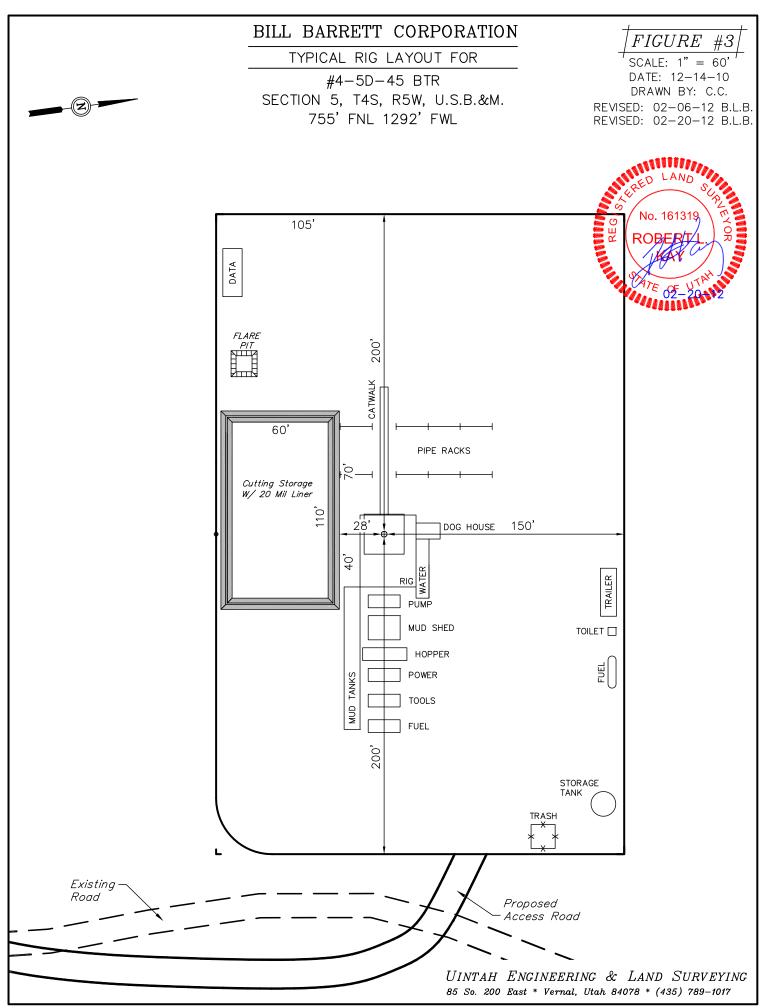
David Watts

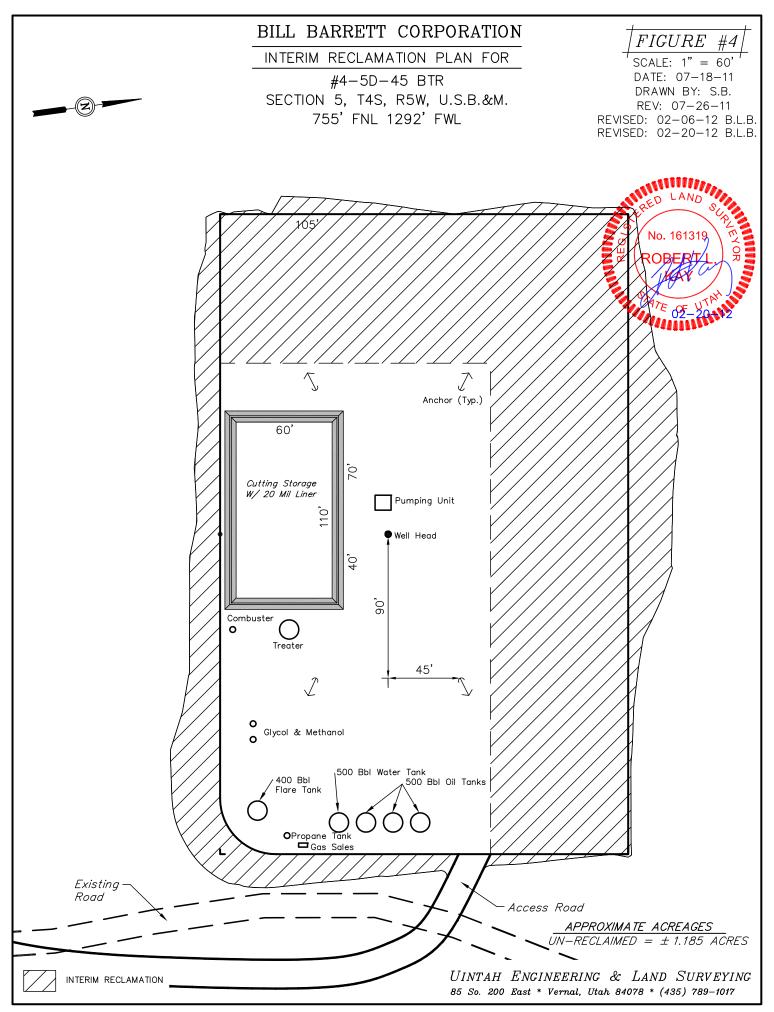
Landman

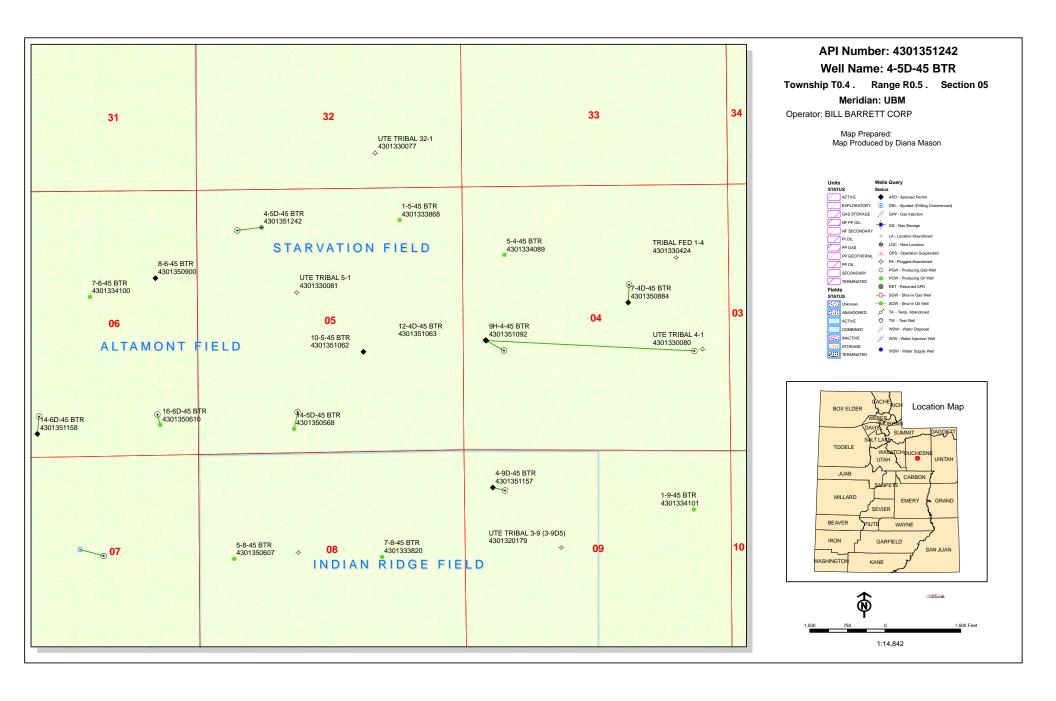
1099 18TH STREET SUITE 2300 DENVER, CO 80202 P 303.293.9100 F 303.291.0420











API Well Number: 43013512420000

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/21/2012 **API NO. ASSIGNED:** 43013512420000

WELL NAME: 4-5D-45 BTR

OPERATOR: BILL BARRETT CORP (N2165) **PHONE NUMBER:** 303 312-8172

CONTACT: Venessa Langmacher

PROPOSED LOCATION: NWNW 05 040S 050W Permit Tech Review:

SURFACE: 0755 FNL 1292 FWL Engineering Review:

BOTTOM: 0810 FNL 0810 FWL Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.16710 LONGITUDE: -110.47910 UTM SURF EASTINGS: 544355.00 NORTHINGS: 4446434.00

FIELD NAME: ALTAMONT LEASE TYPE: 2 - Indian

LEASE NUMBER: 1420H626261 PROPOSED PRODUCING FORMATION(S): GREEN RIVER-WASATCH

SURFACE OWNER: 2 - Indian COALBED METHANE: NO

RECEIVED AND/OR REVIEWED: LOCATION AND SITING:

▶ PLAT R649-2-3.

▶ Bond: INDIAN - LPM8874725 **Unit**:

Potash R649-3-2. General

Oil Shale 190-5

Oil Shale 190-3 R649-3-3. Exception

Oil Shale 190-13 Prilling Unit

Water Permit: 43-180 Board Cause No: Cause 139-85

RDCC Review: Effective Date: 3/11/2010

Fee Surface Agreement Siting: 4 Prod LGRRV-WSTC Per Sectional Drilling Units

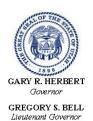
Commingling Approved

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason

15 - Directional - dmason

API Well No: 43013512420000



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: 4-5D-45 BTR **API Well Number:** 43013512420000

Lease Number: 1420H626261

Surface Owner: INDIAN Approval Date: 3/1/2012

Issued to:

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-85. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas

API Well No: 43013512420000

website

at http://oilgas.ogm.utah.gov

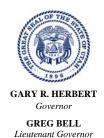
Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
 - Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

February 21, 2012

Notice to Oil and Gas Operators

Re: Hydraulic Fracturing/FracFocus.org

Although the process of hydraulic fracturing has been a commonly used method for obtaining production from oil and gas wells for many years in Utah and worldwide, this process has become an increasingly controversial issue with the public. Currently there are no conclusive studies that show examples of ground water contamination or public health issues resulting from hydraulic fracturing. However, there is still a great amount of public debate concerning the subject. The Division of Oil, Gas and Mining believes that in order to address some of the public anxiety concerning the process of hydraulic fracturing, it would be beneficial to the petroleum industry in Utah to voluntarily report the chemical content of hydraulic fracturing fluids to the website FracFocus (https://fracfocus.org).

FracFocus is the national hydraulic fracturing chemical registry website. This website is a joint project of the Ground Water Protection Council and the Interstate Oil and Gas Compact Commission. The website is both educational and informative and an excellent resource for those seeking information on hydraulic fracturing.

After a hydraulic fracture stimulation is performed, the Division would ask the operator to post on the FracFocus Chemical Disclosure Registry the following stimulation detail:

Fracture date, state, county, API number, operator name, well name, location, production type, true vertical depth, total water volume, and hydraulic fracturing fluid composition as follows:

- (1) Trade name
- (2) Supplier
- (3) Purpose
- (4) Ingredients
- (5) Chemical abstract number
- (6) Maximum ingredient concentration in additive
- (7) Maximum ingredient concentration in hydraulic fracturing fluid



Page 2 Notice to Oil and Gas Operators/Hydraulic Fracturing February 21, 2012

On this website, the public can search for information about the chemicals used in the hydraulic fracturing of oil and gas wells by specific well and location. If you are not familiar with the FracFocus website, the Division encourages you to visit the website to acquaint yourself with the information that is being reported. Other oil and gas producing states have made similar requests or established regulatory requirements concerning hydraulic fracturing and the use of the FracFocus website. The Division strongly believes that through the openness of this request that it will promote the public's trust of the petroleum industry. This will continue to enhance a strong community support for the development of oil and gas, educate the public, and alleviate some of the so-called "mysteries" surrounding hydraulic fracturing. If you have any questions about this request for the voluntary efforts of Utah's petroleum industry, please direct them to John Rogers, Associate Director of Oil and Gas at 801-538-5349, by email at johnrogers@utah.gov.

Sincerely

John R. Baza Director

JRB/jcr/js N:\O&G Reviewed Docs\ChronFile

RECEIVE

FORM APPROVED OMB No. 1004-0136

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FEB 2 4 2012

Exp	ares July 31, 2	010	
ease Serial No.			
420H626261			

APPLICATION FOR PERMIT	TO DRILL OR REENTEBLM	6. If Indian, Allottee or Tril	oe Name
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement	, Name and No.
	her Single Zone Multiple Zone VENESSA LANGMACHER acher@billbarrettcorp.com	8. Lease Name and Well No. 4-5D-45 BTR 9. API Well No.	
3a. Address	3b. Phone No. (include area code)	43.013.51246	
1099 18TH STREET SUITE 2300 DENVER, CO 80202	Ph: 303-312-8172 Fx: 303-291-0420	STARVATION	ласогу
4. Location of Well (Report location clearly and in accord	ance with any State requirements.*)	11. Sec., T., R., M., or Blk.	and Survey or Area
At surface NWNW Lot 4 755FNL 129	2FWL 40.167258 N Lat, 110.478953 W Lon	Sec 5 T4S R5W Mer	·UBM
At proposed prod. zone NWNW Lot 4 810FNL 810	FWL 40.167103 N Lat, 110.480672 W Lon		
 Distance in miles and direction from nearest town or post 4.2 MILES WEST OF DUCHESNE, UT 		12. County or Parish DUCHESNE	13. State UT
 Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 810' (BTM. HOLE) 	16. No. of Acres in Lease 638.80	17. Spacing Unit dedicated 640.00	to this well
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth	20. BLM/BIA Bond No. on	file
1699 [†] P&A	8848 MD 8814 TVD	LPM8874725	
21. Elevations (Show whether DF, KB, RT, GL, etc. 5782 GL	22. Approximate date work will start 06/01/2012	23. Estimated duration 60 DAYS (D&C)	
	24. Attachments		<u> </u>
he following, completed in accordance with the requirements of	of Onshore Oil and Gas Order No. 1, shall be attached to	this form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sys SUPO shall be filed with the appropriate Forest Service Of 	tem Lands, the fice). 4. Bond to cover the operation Item 20 above). 5. Operator certification 6. Such other site specific inf authorized officer.		
25. Signature (Electronic Submission)	Name (Printed/Typed) VENESSA LANGMACHER Ph: 303-312	-8172	Date 02/21/2012
Title SENIOR PERMIT ANALYST			
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka		Date IIIAI 2 0 204
Title Assistant Field Manager	Office Refliczka		JUN 2 8 201
Lands & Mineral Resources	VERNAL FIELD OFFICE	• •	
pplication approval does not warrant or certify the applicant hoperations thereon. onditions of approval, if any, are attached.	olds legal or equitable title to those rights in the subject I	ease which would entitle the a	pplicant to conduct
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, tates any false, fictitious or fraudulent statements or representate	make it a crime for any person knowingly and willfully t itons as to any matter within its jurisdiction.	o make to any department or a	gency of the United

Additional Operator Remarks (see next page)

RECEIVED AUG 1 0 2012

Electronic Submission #131327 verified by the BLM Well Information System For BILL BARRETT CORPORATION, sent to the Vernal Committed to AFMSS for processing by LESLIE ROBINSON on 02/27/2012 ()

DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

PERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

1451788A9

11/8/8 XIX



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No:

API No:

Bill Barrett Corporation

4-5D-45 BTR

43-013-51242

Location:

Lot 4, Sec. 5,T4S R5W

Lease No:

14-20-H62-6261

Agreement: N

N/A

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER:

(435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)		Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 8 Well: 4-5D-45 BTR 6/27/2012

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

Site Specific Conditions of Approval:

- Production Equipment will be painted Beetle Green to help blend into the surrounding vegetation.
- See Exhibit One of the approved EA U&O-FY12-Q2-059 for additional mitigation measures that
 must be followed for the proposed action. There are also site specific COAs of concern towards
 the back of that document that must be adhered to.

General Conditions of Approval:

- A <u>30'</u> foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipelines.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- Bill Barrett Corporation will implement a "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, COA's, and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.

Page 3 of 8 Well: 4-5D-45 BTR 6/27/2012

- The personnel from the Ute Tribe Energy & Minerals Department should be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

Page 4 of 8 Well: 4-5D-45 BTR 6/27/2012

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

• Production casing cement shall be brought up and into the surface casing. The minimum cement top is 400 ft above the surface casing shoe.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the
 daily drilling report. Components shall be operated and tested as required by Onshore Oil &
 Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be
 performed by a test pump with a chart recorder and NOT by the rig pumps. Test shall be
 reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water
 is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM
 Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person

Page 5 of 8 Well: 4-5D-45 BTR 6/27/2012

making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
 Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum
 Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to BLM_UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 6 of 8 Well: 4-5D-45 BTR 6/27/2012

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written
 communication and must be received in this office by not later than the fifth business day
 following the date on which the well is placed on production. The notification shall provide, as a
 minimum, the following informational items:
 - o Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - o The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and

Page 7 of 8 Well: 4-5D-45 BTR 6/27/2012

Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field
 Office Petroleum Engineers will be provided with a date and time for the initial meter calibration
 and all future meter proving schedules. A copy of the meter calibration reports shall be
 submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API
 standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All
 measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
 to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs
 first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
 adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
 sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior
 approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
 before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office
 Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in
 order that a representative may witness plugging operations. If a well is suspended or
 abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent"

Page 8 of 8 Well: 4-5D-45 BTR 6/27/2012

Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Sundry Number: 30294 API Well Number: 43013512420000 FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN	-	5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626261
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizon for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 4-5D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013512420000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0755 FNL 1292 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNW Section:	HP, RANGE, MERIDIAN: 05 Township: 04.0S Range: 05.0W Mei	ridian: U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
✓ NOTICE OF INTENT	ACIDIZE	ALTER CASING	CASING REPAIR
Approximate date work will start:	✓ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
11/1/2012	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
Date of Work Completion.	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12 DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show a	all nertinent details including dates	denths volumes etc
I .	ests to change the surface of		Accepted by the
, , ,	revised casing and cementi	•	Utah Division of Oil, Gas and Mining
			Date: October 04, 2012
			Date:
			By: Ush K Junt
NAME (PLEASE PRINT)	PHONE NUMB	ER TITLE	
Venessa Langmacher	303 312-8172	Senior Permit Analyst	
SIGNATURE N/A		DATE 9/28/2012	

Sundry Number: 30294 API Well Number: 43013512420000

4-5D-45 BTR

Casing Program

Hole Size	SETTING	DEPTH	Casing	Casing	Casing		
	(FROM)	(TO)	Size	Weight	Grade	Thread	Condition
26"	Surface	80'	16"	65#			
12 1/4"	Surface	2,800'	9 5/8"	36#	J or K 55	ST&C	New
8 3/4"	Surface	TD	5 ½"	17#	P-110	LT&C	New

Cementing Program

16" Conductor Casing	Grout			
9 5/8" Surface Casing	Lead: 410 sx Halliburton Light Premium with additives mixed			
	at 11.0 ppg (yield = $3.16 \text{ ft}^3/\text{sx}$) circulated to surface with			
	75% excess. TOC @ Surface			
	Tail: 210 sx Halliburton Premium Plus cement with additives			
	mixed at 14.8 ppg (yield = $1.36 \text{ ft}^3/\text{sx}$), calculated hole			
	volume with 75% excess. TOC @ 2,300'			
5 ½" Production Casing	Lead: 660 sx Tuned Light cement with additives mixed at			
	11.0 ppg (yield = $2.31 \text{ ft}^3/\text{sx}$). TOC @ $2,300$ '			
	Tail: 690 sx Halliburton Econocem cement with additives			
	mixed at 13.5 ppg (yield = $1.42 \text{ ft}^3/\text{sx}$). Top of cement to be			
	determined by log and sample evaluation; estimated TOC @			
	6,313'			

Sundry Number: 31723 API Well Number: 43013512420000

	STATE OF UTAH		FORM 9
ι	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	3	5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626261
SUNDR	Y NOTICES AND REPORTS ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
	posals to drill new wells, significantly deep reenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 4-5D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013512420000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300		DNE NUMBER: 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0755 FNL 1292 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	IIP, RANGE, MERIDIAN: 05 Township: 04.0S Range: 05.0W Meridia	n: U	STATE: UTAH
11. CHECK	K APPROPRIATE BOXES TO INDICATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
7	ACIDIZE	ALTER CASING	CASING REPAIR
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
12/5/2012	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
Report Date:		OTHER	OTHER: Cuttings
	WILDCAT WELL DETERMINATION	OTHER	·
This well was pe proximity to the lak was permitted, b mobile/sealed cuttin	completed operations. Clearly show all permitted as a closed loop system se, so it will not have a pit. A cult due to the lake, BBC is proposed to their appropriate the cultings are stored on the group of the cultings are stored on the group of the gro	n due to the close uttings storage area osing to use RNI's proved facility as the	REQUEST DENIED Utah Division of Oil, Gas and Mining Date: November 13, 2012 By:
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst	
SIGNATURE N/A		DATE 11/6/2012	

Sundry Number: 32063 API Well Number: 43013512420000 FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

	STATE OF UTAH		FORM 9
1	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MINI		5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626261
SUNDR	RY NOTICES AND REPORTS O	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	posals to drill new wells, significantly d reenter plugged wells, or to drill horizon n for such proposals.	eepen existing wells below tal laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 4-5D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013512420000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300		PHONE NUMBER: 03 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0755 FNL 1292 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNW Section:	HIP, RANGE, MERIDIAN: 05 Township: 04.0S Range: 05.0W Meri	dian: U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICATI	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
7	ACIDIZE	ALTER CASING	CASING REPAIR
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
12/5/2012	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN [FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
		RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT	PRODUCTION START OR RESUME		
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
_	L TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
·	WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Cuttings
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show al	Il pertinent details including dates, o	lepths, volumes, etc.
proximity to the lak was permitted bu mobile/sealed cutti	mitted with a closed loop syske, so it will not have a pit. A ut due to the lake, BBC is prongs tanks to haul off to an aled so no cuttings are stored wellsite.	cuttings storage area posing to use RNI's pproved facility/landfill	Accepted by the Utah Division of Oil, Gas and Mining Date: November 15, 2012 By: Day K. Durf
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBE 303 312-8172	R TITLE Senior Permit Analyst	
SIGNATURE N/A		DATE 11/14/2012	

Sundry Number: 34453 API Well Number: 43013512420000

	STATE OF UTAH			FORM 9
I	DEPARTMENT OF NATURAL RESOULDIVISION OF OIL, GAS, AND M		3	5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626261
SUNDR	Y NOTICES AND REPORTS	S ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	posals to drill new wells, significant reenter plugged wells, or to drill horiz n for such proposals.	ly deep zontal l	en existing wells below aterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: 4-5D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP				9. API NUMBER: 43013512420000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202		NE NUMBER: 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0755 FNL 1292 FWL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNW Section:	IIP, RANGE, MERIDIAN: 05 Township: 04.0S Range: 05.0W M	1eridiar	n: U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDIC	ATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	ACIDIZE		ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	□ F	RACTURE TREAT	NEW CONSTRUCTION
·	OPERATOR CHANGE	П.	PLUG AND ABANDON	PLUG BACK
✓ SPUD REPORT	PRODUCTION START OR RESUME		RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud: 1/31/2013	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
1/31/2013	TUBING REPAIR		/ENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	□ WATER SHUTOFF	П.	SI TA STATUS EXTENSION	APD EXTENSION
кероп раце.			OTHER	
	WILDCAT WELL DETERMINATION			OTHER:
	completed operations. Clearly sho oud on 1/31/2013 by Triple	-	_	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 13, 2013
NAME (DI FACE DOUT)	BUONE WIT	ADED.	TITLE	
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUN 303 312-8172	IBER	TITLE Senior Permit Analyst	
SIGNATURE N/A			DATE 2/4/2013	

Sundry Number: 34145 API Well Number: 43013512420000

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINII		5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626261
SUNDR	RY NOTICES AND REPORTS O	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly de reenter plugged wells, or to drill horizont n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 4-5D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013512420000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300		PHONE NUMBER: 3 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0755 FNL 1292 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 05 Township: 04.0S Range: 05.0W Merid	lian: U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
NOTICE OF INTENT Approximate date work will start: 1/28/2013 SUBSEQUENT REPORT Date of Work Completion: SPUD REPORT Date of Spud: DRILLING REPORT Report Date:	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION	ALTER CASING CHANGE TUBING COMMINGLE PRODUCING FORMATIONS FRACTURE TREAT PLUG AND ABANDON RECLAMATION OF WELL SITE SIDETRACK TO REPAIR WELL VENT OR FLARE SI TA STATUS EXTENSION OTHER	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: Cuttings
The drill cuttings for the pad until the properly tested, 16-9-3	completed operations. Clearly show all r the subject well will be store drilling rig is gone. After the they will be moved to the 3-36 road which are BBC owned	d in a bermed area on cuttings have been 36-36 property and surface.	
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBE 303 312-8172	R TITLE Senior Permit Analyst	
SIGNATURE N/A		DATE 1/28/2013	

SUBMIT AS EMAIL

Print Form

BLM - Vernal Field Office - Notification Form

•	nitted By Venessa Langmach			A Drilling	
	Name/Number 4-5D-45 BTR		11DE1 303-	312-0172	
Qtr/0	Qtr <u>NWNW</u> Section 5	Township 4	1 <u>S</u> R	ange <u>5W</u>	
	e Serial Number <u>1420H62626</u>	61			
API	Number <u>4301351242</u>				
	<u>d Notice</u> – Spud is the initial pelow a casing string.	spudding o	of the we	ll, not drilling	
	Date/Time <u>1/31/2013</u>	8:00	AM 🗸	РМ	
Casin time	ng – Please report time casi s. Surface Casing Intermediate Casing Production Casing Liner Other	ng run star	ts, not ce	ementing	
	Date/Time		AM 🗌	РМ	
BOP	E Initial BOPE test at surface BOPE test at intermediate 30 day BOPE test Other			JAN 3 0 201 DIV. OF OIL, GAS & M	13
	Date/Time		AM 🗌	РМ	
Rem	arks				

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM

Operator:

Bill Barrett Corporation

Operator Account Number: N 2165

Address:

1099 18th Street, Suite 2300

city Denver

zip 80202 state CO

Phone Number: _(303) 312-8172

Well 1

API Number	Well	Name	QQ	Sec	Twp	Rng	County
4301351718	3-13D-46 BTR		NENW	13	48	6W	Duchesne
Action Code	Current Entity Number	New Entity Number	S	pud Da	te		ity Assignment ffective Date
Α	Dew	18881	1	/23/201	3	2/19	112013

Comments: Spudding Operation was conducted by Triple A Drilling @ 7:00 am.

Well 2

API Number	Well	Name	QQ	Sec	Twp	Rng	County
4301351242	4-5D-45 BTR	NWNW	5	48	5W	Duchesne	
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignmer Effective Date		
Α	new	18882	1	/31/201	3	2/1	912013

Spudding Operation was conducted by Triple A Drilling @ 8:00 am.

Well 3

Well	Name	QQ	Sec	Twp	Rng	County
4-9D-45 BTR		NWNW	9	4S	5W	Duchesne
Current Entity Number	New Entity Number	Sı	pud Date		Entity Assignmen Effective Date	
new	18883	1/31/2013		2/19/12013		
	4-9D-45 BTR Current Entity Number	Current Entity New Entity Number	4-9D-45 BTR NWNW Current Entity New Entity Number Number	4-9D-45 BTR NWNW 9 Current Entity New Entity Number Spud Da Number Number	4-9D-45 BTR NWNW 9 4S Current Entity New Entity Number Spud Date 10.0000000000000000000000000000000000	4-9D-45 BTR NWNW 9 4S 5W Current Entity Number Number Spud Date Entity Number Ef

Spudding Operation was conducted by Triple A Drilling @ 8:00 am.

ACTION CODES:

- A Establish new entity for new well (single well only)
- **B** Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a melocation V L
- E Other (Explain in 'comments' section)

FEB 0 5 2013

Venessa Langmacher

Name (Please Print)

Venessa Langmacher

Signature

Title

Sr Permit Analyst

2/4/2013

Date

Sundry Number: 35303 API Well Number: 43013512420000

	STATE OF UTAH			FORM 9
I	DEPARTMENT OF NATURAL RESOL DIVISION OF OIL, GAS, AND N		3	5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626261
SUNDR	Y NOTICES AND REPORT	SON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
	posals to drill new wells, significan reenter plugged wells, or to drill hor n for such proposals.			7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: 4-5D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP				9. API NUMBER: 43013512420000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202		NE NUMBER: 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0755 FNL 1292 FWL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 05 Township: 04.0S Range: 05.0W	Meridiar	n: U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDIC	CATE N	ATURE OF NOTICE, REPOR	T, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	ACIDIZE		ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start.	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	□ F	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	F	PLUG AND ABANDON	PLUG BACK
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	☐ F	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
	REPERFORATE CURRENT FORMATION		SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR		/ENT OR FLARE	WATER DISPOSAL
✓ DRILLING REPORT Report Date:	WATER SHUTOFF		SI TA STATUS EXTENSION	APD EXTENSION
2/28/2013	WILDCAT WELL DETERMINATION		OTHER	OTHER:
40 DECORUPE DECORUPE OF				<u>'</u>
12. DESCRIBE PROPOSED OR	Spud February 2013	-	Timent details including dates, d	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 07, 2013
NAME (PLEASE PRINT) Brady Riley	PHONE NU 303 312-8115	MBER	TITLE Permit Analyst	
SIGNATURE N/A			DATE 3/5/2013	

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# Nabors N	
Submitted By <u>Lawrence Lorenzen</u> Phone Number <u>303-</u>	<u>353-5350</u>
Well Name/Number <u>4-5D-45 BTR</u> Qtr/Qtr <u>NW/NW</u> Section <u>5</u> Township <u>4S</u> Range 5 Lease Serial Number <u>1420H626261</u> API Number 43-013-51242	5W_
<u>Spud Notice</u> – Spud is the initial spudding of the well, no out below a casing string.	ot drilling
Date/Time AM _ PM _	
 Casing – Please report time casing run starts, not cemer times. Surface Casing Intermediate Casing Production Casing Liner Other 	nting
Date/Time <u>3/13/2013</u> <u>7:00</u> AM ☐ PM ⊠	
BOPE Initial BOPE test at surface casing point BOPE test at intermediate casing point 30 day BOPE test Other	RECEIVED MAR 1 3 2013 DIV. OF OIL, GAS & MINING
Date/Time <u>3/14/2013</u> <u>11:00</u> AM ☐ PM ⊠	
RemarksTimes are estimated	

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# Nabors M22
Submitted By Pat Clark Phone Number 303-353-5350
Well Name/Number 4-5D-45 BTR
Qtr/Qtr NW/NW Section 5 Township 4S Range 5W_
Lease Serial Number <u>1420H626261</u>
API Number 43-013-51242
<u>Spud Notice</u> – Spud is the initial spudding of the well, not drilling out below a casing string.
Date/Time AM DM PM D
Casing — Please report time casing run starts, not cementing times. ☐ Surface Casing ☐ Intermediate Casing ☐ Production Casing ☐ Liner ☐ Other
Date/Time <u>3/16/2013</u> <u>2:00</u> AM ⊠ PM □
BOPE
Initial BOPE test at surface casing point BOPE test at intermediate casing point 30 day BOPE test Other RECEIVED MAR 1 5 2013 DIV. OF OIL, GAS & MINING
Date/Time AM PM
Remarks D&A - perforating @ 1620' cmt thru perfs. Time is

<u>estimated</u>

Sundry Number: 35626 API Well Number: 43013512420000

	STATE OF UTAH		FORM 9
I	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	3	5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626261
	RY NOTICES AND REPORTS ON	_	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
Do not use this form for procurrent bottom-hole depth, FOR PERMIT TO DRILL form	posals to drill new wells, significantly deep reenter plugged wells, or to drill horizontal n for such proposals.	pen existing wells below laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL			8. WELL NAME and NUMBER: 4-5D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013512420000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300		ONE NUMBER: 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0755 FNL 1292 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNW Section:	HIP, RANGE, MERIDIAN: 05 Township: 04.0S Range: 05.0W Meridia	n: U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICATE N	IATURE OF NOTICE, REPOF	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
7	ACIDIZE	ALTER CASING	CASING REPAIR
TYPE OF SUBMISSION ACIDIZE ONOTICE OF INTENT Approximate date work will start: 3/15/2013 CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
3/15/2013	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion:	☐ OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12 DESCRIPE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all pe		·
BBC proposes to	ecent rig fire. Please see proce	e shallow gas kick	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 04, 2013
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst	
SIGNATURE	222 232 2332	DATE	
N/A		3/15/2013	

Sundry Number: 35626 API Well Number: 43013512420000



The Utah Division of Oil, Gas, and Mining

State of UtahDepartment of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43013512420000 Work completed prior to approval.

RECEIVED: Apr. 04, 2013

Sundry Number: 35626 API Well Number: 43013512420000

4-5D-45 BTR Plugging Procedure

Once we get the rig cleaned up, we plan to plug the well as follows, pending your approval, leaving the 4-1/2" in the hole since we can't pull it out.

This could happen tomorrow, so please let us know if you have any questions.

16" conductor set and cemented at 80' BGL 12-1/4" hole to 2080'

LIH: Bit, motor, 3 PT RMR, shock sub, NMDC, gap sub, antenna sub, NMDC, 3 PT RMR, XO, 9-6 1/2" DC's, 42 jts 4-1/2" HWDP to surface

Keep hole full at all times

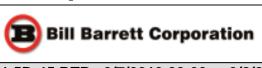
Have at least 400 sx of 14.8 ppg cement on location for top out.

- 1. While continue to circulate with rig pumps, run 1" in the hole as deep as possible, up to 900' if it will go. Pump through to insure pipe is clear.
- 2. RU Halliburton on 4-1/2" DP, establish PIR at 1, 2 and 3 bpm, record pressures for each. Continue to circ while RUWL.
- 3. RUWL. RIH and perforate deepest joint of HWDP at 1620' 4 shots. Shoot twice if necessary. Current TD is 2080'.
- 4. Establish PIR as above in step #2 and determine if we successfully perforated. Reperf if necessary.
- 5. Be rigged up prior to pumping any cement to immediately pump cement down the 1" (if no cement to surface) or fill the backside with cement (if cement to surface and it is falling).
- 6. Pump 11.0 ppg Tunelight (FL < 200 cc) down the DP and attempt to circ to surface. No FLA in cement so we don't plug. Have enough cement for 100% excess, including inside the 4-1/2" DP (about 130 ft3). Total of about 2294 ft3 + 130 ft3 =2424 ft3
 About 1050 sx 11.0 ppg Tunelight cement. 2.30 ft3/sx yield. Halliburton is working on the slurry.</p>
 - Pump cement at 6-8 bpm
- 7. Once good cement to surface, stop mixing and pumping cement leaving DP and annulus full of cement. Monitor for fall back on both sides.
- 8. Top out with 14.8 ppg cement with 2%-3% CaCl2, keeping hole full. Continue to top out as necessary until no fall back and both sides full.
- 9. If no cement to surface and all the 11.0 ppg is gone, tie onto the 1" and top out with 14.8 ppg cement with 2% CaCl2 as necessary.
- 10. Cut off 4-1/2" DP at floor. Will later cut it off below ground level once BOP off, and wellhead removed.
- 11. Repair rig as necessary on this location.

Sundry Number: 35674 API Well Number: 43013512420000

	STATE OF UTAH			FORM 9
	DEPARTMENT OF NATURAL RESOU DIVISION OF OIL, GAS, AND N		i	5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626261
	RY NOTICES AND REPORT		_	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
Do not use this form for procurrent bottom-hole depth, FOR PERMIT TO DRILL form	pposals to drill new wells, significant reenter plugged wells, or to drill hori n for such proposals.	tly deep izontal l	en existing wells below aterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL				8. WELL NAME and NUMBER: 4-5D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP				9. API NUMBER: 43013512420000
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 0755 FNL 1292 FWL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNW Section:	HIP, RANGE, MERIDIAN: 05 Township: 04.0S Range: 05.0W I	Meridiar	n: U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDIC	CATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	ACIDIZE	A	LTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start: SUBSEQUENT REPORT Date of Work Completion:	CHANGE TO PREVIOUS PLANS		CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	□ F	RACTURE TREAT	NEW CONSTRUCTION
3/15/2013	OPERATOR CHANGE	√ P	LUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	□ R	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	□ s	IDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
_	TUBING REPAIR	□ v	ENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	□ s	II TA STATUS EXTENSION	APD EXTENSION
·	WILDCAT WELL DETERMINATION	П	THER	OTHER:
40 DECODINE PROPOSED OR			····	<u> </u>
Attached is the rep	completed operations, clearly sho ort on the plug and abanded ell from 3/13/2013 to 3/1	on tha	at took place on this	Accepted by the Utah Division of Oil, Gas and Mining
=				FOR RECORD ONLY March 21, 2013
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUI 303 312-8172		TITLE Senior Permit Analyst	
SIGNATURE	000 012 0172		DATE	
N/A			3/19/2013	

Sundry Number: 35674 API Well Number: 43013512420000



_											
	45 BTR				- 3/8/2013						T
API/UWI 4301351	2420000		State/Provinc	e	County Duchesne	Field Name Black Ta	e ail Ridge	Well Status DRILLING	Total	Depth (ftKB)	Primary Job Type 0.0 Drilling & Completion
Time Lo		1			·	1	Ü		l		0
Start Time 22:00	Dur (hr) 8.00	End Time	e Code	DIGLID	Category & TEARDOWN		Pig dowr	Prepare for truck		Com	
			0040.0			00-00	Kig dowi	T F Tepare 101 truck	As. Move camps.		
4-3D-	45 BTR		State/Province		- 3/9/2013 (County	Field Name		Well Status	ITotal	Depth (ftKB)	Primary Job Type
	2420000		UT	.0	Duchesne	•	ail Ridge	DRILLING	Total	Deptil (IIIID)	0.0 Drilling & Completion
Time Lo		1			_					_	
Start Time 06:00	Dur (hr) 24.00	End Time	e Code	RIGUP	& TEARDOWN		MIRU. M	ud tanks and entir		Com	
	45 BTR		2013 0	1	- 3/10/2013	3 06:00					
API/UWI		Ι	State/Provinc		County	Field Name		Well Status	Total	Depth (ftKB)	Primary Job Type
	2420000		UT		Duchesne	Black Ta	ail Ridge	DRILLING			0.0 Drilling & Completion
Time Lo Start Time	Dur (hr)	End Time	e Code		Category					Com	
06:00		06:00	1	RIGUP	& TEARDOWN		Move an	d assemble Subst	tructure and derric	ck. Derrick re	eady to raise.
4-5D-	45 BTR	3/10	/2013	06:00	- 3/11/201	3 06:00	0				
API/UWI	0.400000		State/Provinc	e	County	Field Name		Well Status	Total	Depth (ftKB)	Primary Job Type
4301351 Time Lo	2420000		UT		Duchesne	Black 1	ail Ridge	DRILLING			0.0 Drilling & Completion
Start Time	Dur (hr)	End Time	e Code		Category					Com	
06:00		02:00	1		& TEARDOWN			rrick, Continue rig	, i		
02:00 04:30		04:30	21	OPEN OPEN				onductor, flowline a	and turnbuckles.		
		06:00	21		0/40/004	10.00.0		шар впа			
4-5D-	45 BTR		State/Province		- 3/12/201	Field Name		Well Status	Tatal	Danth (fil/D)	Dimen leb Time
	2420000		UT	e	County Duchesne	I	ail Ridge	DRILLING	Total	Depth (ftKB)	Primary Job Type 0.0 Drilling & Completion
Time Lo					•	<u>'</u>		•	•		
Start Time 06:00	Dur (hr)	End Time	e Code 20	DIREC	Category TIONAL WORK		P/U dir to	ools & orient drill to		Com	
13:00		13:30	7		CATE RIG		Rig servi				
13:30	5.00	18:30	2	DRILL	ACTUAL		Drlg 179	-317'.			
18:30	0.50	19:00	7		CATE RIG		Rig servi				
19:00	11.00	06:00	2	DRILL	ACTUAL		Drlg 317	-997'. Survey @ 8	395' .42 inc 259 az	z. MW 8.6+#	t/gal 39 vis
	45 BTR	3/12	2/2013	06:00	- 3/13/201	3 06:00	0				
API/UWI 4301351	2420000		State/Provinc	e	County Duchesne	Field Name	ail Ridge	Well Status DRILLING	Total	Depth (ftKB)	Primary Job Type 0.0 Drilling & Completion
Time Lo		l.	<u> </u>		2 40.100.10	2.001111	go	2.1			ore 2 mm. ig a compression
Start Time	Dur (hr)	End Time		DDILL	Category		D.:!! 007!	00001		Com	
06:00		02:30	21	OPEN	ACTUAL		Drill 997'		site & weight up to	9.5 nng G	as bubble to surface @ 05:00,
02.00	0.00	00.00	-	OI LIV			flash fire		parted @ 05:15,	dropped top	drive to floor. @ 06:00
	45 BTR	3/13	/2013	06:00	- 3/14/201	3 06:0	0				
API/UWI 4301351	2420000		State/Provinc	e	County Duchesne	Field Name	e ail Ridge	Well Status DRILLING	Total	Depth (ftKB)	Primary Job Type 0.0 Drilling & Completion
Time Lo			<u>. </u>		12401100110	Didok 16	an raidge	J. C. L. L. C.	l		5.5 51mmig & Completion
Start Time	Dur (hr)	End Time		OONE	Category		0: 1.	11 @ 440 / 1		Com	
06:00		06:00	5		MUD & CIRC		Nabors s	afety standdown,), raised mw to 9.8 ppg. BBC and
	45 BTR				3/15/201			1	1		12
^{API/UWI} 4301351	2420000		State/Provinc	e	County Duchesne	Field Name Black Ta	e ail Ridge	Well Status DRILLING	I otal	Depth (ftKB)	Primary Job Type 0.0 Drilling & Completion
Time Lo	g				.				I .		, <u> </u>
Start Time 06:00	Dur (hr)	End Time	e Code 5	COND	Category MUD & CIRC		Circulato	well @ 110 stroke		Com marshall in	spected rig. Rigged up 500 ton
00.00	24.00	00.00		COND	MOD & CIRC			ulled catwalk out o		marshall IN	specied hg. Nigged up 500 (01)
				1			1		-		

Sundry Number: 35674 API Well Number: 43013512420000



API/UWI	0.400000		State/Provinc	е	County	Field Nam		Well Status	T	Total Depth (ftKB)	0.0	Primary Job Type	
	2420000	Į	JT		Duchesne	Віаск І	ail Ridge	DRILLING			0.0	Drilling & Completion	
ime Lo	Dur (hr)	End Time	Code		Category					Com			
06:00	, ,	19:00	5	COND	MUD & CIRC		Circulate	well @ 110 strokes	1200 psi. F		nts on	crane, tied on to top	
00.00							drive. Flow check, pull top drive up and set slips. Cut drilling line and tie oblocks. Establish PIR (1 bpm-41 psi;2 bpm-60 psi;3 bpm-143 psi).						
19:00	2.50	21:30	21	OPEN			R/U DCT	wireline, perforate H	WDP @ 1	666'.			
21:30	6.00	03:30	5	COND	MUD & CIRC		C&C hole	e/wait on cement.					
4-5D-	45 BTR	3/16	/2013	06:00	- 3/17/20	13 06:0	0						
API/UWI			State/Provinc	е	County	Field Nam	-	Well Status	T	Total Depth (ftKB)		Primary Job Type	
	2420000	l	JT		Duchesne	Black T	ail Ridge	DRILLING			0.0	Drilling & Completion	
Time Lo													
Start Time	Dur (hr)	End Time			Category					Com			
06:00	6.00	12:00	5	COND	MUD & CIRC		Circulate	well @ 70 strokes, 7	′25 psi/wait	t on cement.			
							4.15 yld, 27.82 gps H2O. Mix and pump 610 sx(247 bbls) tuned light cement @ 1 2.28 yld, 10.48 gps H2O @ 4 bpm. Pump 3.5 bbls to clear lines. Full returns, max pressure 400 psi. Returned 25 bbls cmt to surface. Cement fell 6" in 45 minutes. Drained and flushed conductor. Cement job witnessed and okayed by Glade Ric Vernal BLM.						
14:00	16.00	06:00	13	WAIT	ON CEMENT		Wait on cement. Checked cmt @ 23:00, too soft to cut off.						
4-5D-	45 BTR	3/17	/2013	06:00	- 3/18/20	13 06:0	0						
API/UWI		8	State/Provinc	е	County	Field Nam	e	Well Status	Т	Total Depth (ftKB)		Primary Job Type	
4301351	2420000	ι	JT		Duchesne	Black T	ail Ridge	DRILLING			0.0	Drilling & Completion	
Time Lo	g												
Start Time	Dur (hr)	End Time			Category					Com			
06:00	4.00	10:00	13	WAIT	ON CEMENT		WOC. Repair rig.						
10:00	6.00	16:00	21	OPEN			indication	ns up through cement	t. Cut off co	onductor and DF	, weld	Cut on conductor, Gas d 1/2" plate w/2" 3000# contacted.	
16:00	14.00	06:00	8	REPAI	R RIG		ball valve on top of conductor. Well contained, BLM and State contacted. Removed and replaced top drive, blocks, ST-80 iron roughneck. Drawworks readied removal.						

www.peloton.com Page 2/2 Report Printed: 3/19/2013

Sundry Number: 35795 API Well Number: 43013512420000 FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

	STATE OF UTAH				FORM 9
	DEPARTMENT OF NATURAL RESOURC DIVISION OF OIL, GAS, AND MIN	_	3	5.LEASE DESIGNATION AND S 1420H626261	SERIAL NUMBER:
	RY NOTICES AND REPORTS			6. IF INDIAN, ALLOTTEE OR T Uintah	RIBE NAME:
Do not use this form for pro- current bottom-hole depth, FOR PERMIT TO DRILL form	oposals to drill new wells, significantly reenter plugged wells, or to drill horizon for such proposals.	deep ntal l	pen existing wells below laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NA	AME:
1. TYPE OF WELL				8. WELL NAME and NUMBER: 4-5D-45 BTR	
2. NAME OF OPERATOR: BILL BARRETT CORP				9. API NUMBER: 43013512420000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202		NE NUMBER: 312-8164 Ext	9. FIELD and POOL or WILDC ALTAMONT	AT:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0755 FNL 1292 FWL				COUNTY: DUCHESNE	
QTR/QTR, SECTION, TOWNSI Qtr/Qtr: NWNW Section:	HIP, RANGE, MERIDIAN: 05 Township: 04.0S Range: 05.0W Mei	ridiar	n: U	STATE: UTAH	
11. CHEC	K APPROPRIATE BOXES TO INDICAT	ΓΕ Ν	ATURE OF NOTICE, REPOR	T, OR OTHER DATA	
TYPE OF SUBMISSION			TYPE OF ACTION		
l .	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show a ore-enter this wellbore per toprocedure.			CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT F TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: Fish Wellbore Epths, volumes, etc. Approved by Utah Division Oil, Gas and Mi Date: March 25, 2 By:	the of ining
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMB 303 312-8172	ER	TITLE Senior Permit Analyst		
SIGNATURE N/A			DATE 3/22/2013		

Sundry Number: 35795 API Well Number: 43013512420000

4-5D-45 BTR Fishing Procedure

3/22/2013

- 1. Skid Nabors M22 over the 4-5D-45 BTR.
- 2. NU 16" riser, flowline and rotating head/diverter.
- 3. PU washover shoe and +/- 100' of washpipe, 9 or 12 6-1/2" DCs and washover 4-1/2" DP.
- 4. Depending on how the washout operation goes, recover as much of the fish as possible.
- 5. Depending on how much of the fish we recover, we will either finish the surface hole and continue drilling per the APD <u>or</u> we will spot appropriate number of sacks of 15.6 ppg cement from top of fish to surface to complete P&A.

Fish: PDC bit, motor, 3 PT RMR, Shock Sub, NMDC, gap sub, antenna sub, NMDC, 3 PT RMR, XO sub, 9 6-1/2"DC's (279'), 42 jts 4-1/2" HWDP, 4-1/2" DP to surface

Top of fish at surface

Bottom of fish at 2083'

Perf in 4-1/2" HWDP @ 1666'. Cemented from 1666' to surface with 610 sx (247 bbls) 11.0 ppg Tune Light. Had 25 bbls cement to surface. Cement fell 6" in 45 min.

RECEIVED: Mar. 22, 2013

Sundry Number: 36365 API Well Number: 43013512420000 FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

			FORM 9
	STATE OF UTAH	250	
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626261
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
	posals to drill new wells, significantly reenter plugged wells, or to drill horizon for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 4-5D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013512420000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0755 FNL 1292 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNW Section:	HIP, RANGE, MERIDIAN: 05 Township: 04.0S Range: 05.0W Me	ridian: U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
.,	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	✓ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
4/5/2013	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:		SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
Jano Sr Spaan	REPERFORATE CURRENT FORMATION		WATER DISPOSAL
	TUBING REPAIR	☐ VENT OR FLARE	
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
BBC recovered all drill another 200' of the gas detector. No cement the 9-5/8" J55 STC about 230 surface. Plan to use immediately after b 2% CaCl2 even if we back. Top 9-5/8" of the street of the st	the fish and are going in the or so. Current MW is 9.8 ppg losses. Current TD 2083'. You probably sometime tomorn 10'. Top of tail (14.8 ppg) at use 100% excess. Have 200' umping plug and top out will get 11.5 to surface and ce centralizer will be run at 200 15.6 ppg on location for top	e hole to clean it up and g and zero units gas on We will probably run and row. Set at 9-5/8" 36# 1500', 11.5 ppg lead to of 1" on location, run th 15.6 ppg cement with ment doesn't want to fall BGL. Have 400 sx of	Accepted by the Utah Division of Oil, Gas and Mining Date: April 04, 2013 By:
NAME (PLEASE PRINT) Venessa Langmacher SIGNATURE	PHONE NUME 303 312-8172	SER TITLE Senior Permit Analyst DATE	
N/A		4/4/2013	

Form 3160-4 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0137

			BUREA	U OF I	AND	MANAGI	EMENT					1	Exp	pires: Ju	lly 31, 2010
	WELL (COMPL	ETION	OR RE	COM	PLETIC	N REPO	RT A	AND L	OG			ease Serial 420H626		
la. Type of	_	Oil Well	_		□ Dr	_						6. If	Indian, A	llottee	or Tribe Name
b. Type of	f Completion	Oth	lew Well er	□ Wo	rk Over	☐ De	epen	Plug F	Back	☐ Diff	Resvr.	7. U	nit or CA	Agreer	nent Name and No.
2. Name of	Operator ARRETT CO		TION 5	= Mail: x	danam	ontact: VE	NESSA LA	NGM.	ACHER	1		8. L	ease Name	and W	Vell No.
	1099 18T				nangma	acner@bii	lbarrettcorp 3a. Phor		(include	area coo	le)		-5D-45 B PI Well N		
4 7	DENVER						Ph: 303	3-312-	8172	arou coc). A	11 WCHIN	o. 	43-013-51242
	of Well (Re				cordance	with Fede	eral requiren	nents)*)		Field and F		Exploratory
At surfa			55FNL 129						_			11. 5	Sec., T., R	., M., o	r Block and Survey
At top p	rod interval	reported b	elow NW	NW Lot	4 755F	FNL 1292I	FWL		=)			0	r Area So County or	ec 5 T	4S R5W Mer UBM
At total		NW Lot	4 759FNL 1										UCHESI		13. State UT
14. Date Sr 01/31/2				Pate T.D. 3/13/201		d	16.	Date C D & A	omplete	d 3/1 8 Ready to	2013 Prod.	17. I	Elevations 57	(DF, K 782 GI	B, RT, GL)*
18. Total D	epth:	MD TVD	2087 2087		19. Pi	ug Back T.		D /D	-	·	20. Dej	oth Bri	dge Plug S	Set:	MD
21. Type E	lectric & Oth				mit copy	y of each)		, D		22. Wa	s well core	d?	№ No	П Ү	TVD
22 G						· ·				Wa Dir	s DST run? ectional Su	,	₩ No	□ Ye	es (Submit analysis) es (Submit analysis)
23. Casing ar	d Liner Rec	ord (Repo	ort all string:			-	I		_				T		
Hole Size	Size/G		Wt. (#/ft.)	To (MI	- 1	Bottom (MD)	Stage Ceme Depth	enter		f Sks. & f Cemen	Slurry t (BE		Cement	Top*	Amount Pulled
26.000	16.00	O COND	65.0)	0	80		80							
	1		_			_		+			- 		ļ		
	-							-+	_						
			_					\dashv			_				
			_					\neg			_				<u> </u>
24. Tubing	Record												L		
Size	Depth Set (M	ID) P	acker Depth	(MD)	Size	Deptl	Set (MD)	Pac	ker Dep	th (MD)	Size	De	pth Set (N	(D)	Packer Depth (MD)
25. Producii	ng Intervals					26.	Perforation	Record			_L	<u> </u>		i	
Fo	ormation		Тор		Botto			ated In			Size		No. Holes	T	Perf. Status
A)							1 01101	atou III				 	10. 110165	T	ren. Status
B)												十		\top	
C)															
D)											_				
27. Acid, Fr	acture, Treat	ment, Cer	nent Squeez	e, Etc.		- VENE				7.11.					
]	Depth Interva	<u>ıl</u>						Amo	ount and	Type of	Material				
			 -								_				
									_						
	-								_						
28. Producti	ion - Interval					·									
Date First	Test	Hours	Test	Oil	Gas	, lu	Vater	Oil Gravi	itu	Gas		Deady-6	on Motho 3		
Produced	Date	Tested	Production	BBL	MC			Corr. AP		Grav		rivauct	ion Method		

Choke Tbg. Press. Flwg. 24 Hr. Csg. Press. Oil BBL Gas MCF Water BBL Gas:Oil Well Status Ratio 28a. Production - Interval B Date First Produced Water BBL Oil BBL Gas MCF Oil Gravity Gas Gravity Production Method Tested Production Corr. API Tbg. Press. Flwg. Choke Gas:Oil Ratio Csg. Press. 24 Hr. Oil BBL Gas MCF Water BBL Well Status Size

(See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #201974 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED

28b. Produ	uction - Interv	al C									
Date First	Test	Hours	Test	Oil	Gas	Water	100 Cm 21				
Produced	Date	Tested	Production	BBL	MCF	BBL	Oil Gravity Corr. API		Gas Gravity	Production Method	
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio		Well Status		
200 Dund	st action - Interv										
Date First	Test		1	T							
Produced	Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API		Gas Gravity	Production Method	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio		Well Status		
29. Dispos	sition of Gas(S	old, used f	or fuel, vente	ed, etc.)	<u></u>	<u> </u>		1			
	ary of Porous	Zones (Inc	lude Amifei	Lej.					100 =		
Show a tests, in	all important z ncluding depth coveries.	ones of no	roeity and co	entante Hoov	eof: Cored in tool open.	intervals and a , flowing and s	ull drill-stem shut-in pressu	ıres	31. For	mation (Log) Markers	
1	Formation		Тор	Bottom		Description	ıs, Contents, e	etc.		Name	Тор
			·								Meas. Depth
									- [
					:						
									Ì		
created	nal remarks (i ctor was set d a flash fire edure is liste	on this we on the rig	ll. When dr	illing reach	an aluada	a gas kick o d and aband	ccured which	h	· ·		
33. Circle e	nclosed attach	ments:									
	trical/Mechani				2	2. Geologic R	eport		3. DST Repo	ort 4 Dire	ectional Survey
5. Sund	fry Notice for	plugging a	nd cement v	erification	(6. Core Analy	sis		7 Other:	4. Dite	ccional Survey
34. I hereby	certify that th	ne foregoin	g and attach	ed informat	ion is com	alete and corre	ect as datarmi	nad from	all available	records (see attached instr	
	-	J	Electro	nic Submis	sion #2019	974 Verified b	w the RIM V	Wall Info	rmation C.	ecords (see attached instr em.	uctions);
Name (p	olease print) <u>V</u>	ENESSA	LANGMAC	HER			Title 3	SENIOR	PERMIT AN	JAI YST	
Signatu			Submission	1	(()	00000				v v 1 V 1	
⊃ ₁₆ natu		_rectionic	OUDITIISS(0)	in Arrow	in Air	muriu (Date 9	03/19/20	113		
Title 18 U.S of the Unite	S.C. Section 10 d States any fa	001 and Tit	le 43 U.S.C. ous or fradul	Section 12 ent statement	12, make it	t a crime for an	ny person kno	wingly a	nd willfully to	make to any department	or agency

Bill Barrett Corp

Duchesne County, UT (NAD 1927) Sec. 5-T4S-R5W 4-5D-45 BTR

Plan A

Design: Sperry Final Survey

Sperry Drilling ServicesStandard Report

19 March, 2013

Well Coordinates: 669,615.48 N, 2,285,536.19 E (40° 10' 02.28" N, 110° 28' 41.67" W)

Ground Level: 5,773.00 ft

Local Coordinate Origin:

Centered on Well 4-5D-45 BTR

Viewing Datum:

RKB 22' @ 5795.00ft (Nabors M22)

TVDs to System:

N

North Reference:

True

Unit System:

API - US Survey Feet - Custom

Geodetic Scale Factor Applied Version: 2003.16 Build: 43

Design Report for 4-5D-45 BTR - Sperry Final Survey

Measured			Vertical			Vertical	Danlan
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Dogleg Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00
154.00	0.40	198.800	154.00	-0.51	-0.17	0.23	0.26
First Sperry	MWD Survey	@ 154.00' MD)			5.20	0.20
215.00	0.51	210.160	215.00	-0.95	-0.38	0.48	0.23
276.00	0.53	223.340	275.99	-1.39	-0.71	0.86	0.20
337.00	0.38	210.900	336.99	-1.76	-1.01	1.20	0.29
399.00	0.30	244.790	398.99	-2.01	-1.26	1.48	0.34
460.00	0.30	267.600	459.99	-2.08	-1.56	1.79	0.19
521.00	0.39	327.310	520.99	-1.92	-1.83	2.04	0.19
589.00	0.46	318.370	588.99	-1.52	-2.14	2.30	0.56
650.00	0.44	319.350	649.99	-1.16	-2.46	2.57	0.14
711.00	0.26	302.240	710.98	-0.91	-2.73	2.81	0.34
772.00	0.21	291.160	771.98	-0.79	-2.95	3.02	0.11
834.00	0.32	274.790	833.98	-0.74	-3.22	3.29	0.11
895.00	0.42	259.060	894.98	-0.76	-3.61	3.68	0.23
956.00	0.76	243.550	955.98	-0.99	-4.20	4.28	0.23
1,017.00	0.85	230.900	1,016.97	-1.45	-4.91	5.04	0.33
1,078.00	0.28	236.370	1,077.97	-1.82	-5.38	5.56	0.94
1,139.00	0.29	73.180	1,138.97	-1.86	-5.36	5.54	0.92
1,201.00	0.74	34.280	1,200.97	-1.48	-4.99	5.12	0.88
1,261.00	0.89	19.210	1,260.96	-0.72	-4.61	4.67	0.43
1,323.00	0.68	12.360	1,322.96	0.09	-4.38	4.34	0.37
1,384.00	0.31	357.440	1,383.95	0.61	-4.31	4.21	0.64
1,445.00	0.29	284.830	1,444.95	0.82	-4.46	4.34	0.58
1,508.00	0.60	240.480	1,507.95	0.69	-4.90	4.79	0.30
1,572.00	0.78	221.060	1,571.95	0.20	-5.48	5.42	0.76
1,635.00	0.52	238.730	1,634.94	-0.27	-6.01	6.00	0.52
1,698.00	0.52	295.550	1,697.94	-0.30	-6.51	6.50	0.79
1,762.00	0.72	312.860	1,761.94	0.10	-7.07	7.01	0.73
1,825.00	0.81	242.190	1,824.93	0.16	-7.75	7.68	1.41
1,888.00	1.31	206.950	1,887.92	-0.69	-8.47	8.49	1.41
1,951.00	0.99	193.220	1,950.91	-1.86			
2,015.00	0.33	176.380	2,014.90		-8.92	9.08	0.67
	MWD Survey			-2.82	-9.02	9.29	0.53
2,087.00	0.77	176.380	2,086.89	-3.79	0.00	0.01	
•	e Projection to			-3.19	-8.96	9.34	0.00
		65 2001.0	·D				

Design Annotations

Measured	Vertical	Local Coor	dinates			
Depth	Depth	+N/-S	+E/-W	Comment		
(ft)	(ft)	(ft)	(ft)			
154.00	154.00	-0.51	-0.17	First Sperry MWD Survey @ 154.00' MD		
2,015.00	2,014.90	-2.82	-9.02	Last Sperry MWD Survey @ 2015.00' MD		
2,087.00	2,086.89	-3.79	-8.96	Straight Line Projection to TD @ 2087.00' MD		

Design Report for 4-5D-45 BTR - Sperry Final Survey

Vertical Section Information	<u>Vertical</u>	Section	Information
------------------------------	-----------------	---------	-------------

Angle Type Origin Origin Start Azimuth Туре Target +E/-W TVD (°) (ft) (ft) (ft) Target 4-5D-45 BTR_BHL Plat 263.385 Slot 0.00 0.00 0.00

Survey tool program

 From (ft)
 To (ft)
 Survey/Plan
 Survey Tool

 154.00
 2,087.00
 Sperry MWD Surveys
 MWD

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/- W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
4-5D-45 BTR_BHL F	0.00	0.00	8,795.00	-55.72	-480.44	669,554.28	2,285,056.46	40° 10' 1.729 N	110° 28' 47.860 W
actual wellpath rPoint	nisses ta	rget cen	ter by 6724.	85ft at 2087.00f	ft MD (2086	.89 TVD, -3.7	9 N, -8.96 E)		
4-5D-45 BTR_ZONE	0.00	0.00	6,350.00	-55.72	-480.44	669,554.28	2,285,056.46	40° 10' 1.729 N	110° 28' 47.860 W
 actual wellpath n Rectangle (sides 	nisses ta s W200.0	rget cen 0 H200.	ter by 4289.4 00 D2,445.0	41ft at 2087.00f 0)	ft MD (2086	.89 TVD, -3.7	9 N, -8.96 E)		
4-5D-45 BTR_SHL	0.00	0.00	0.00	0.00	0.00	669,615.48	2,285,536.19	40° 10' 2.280 N	110° 28' 41.671 W
- actual wellpath h - Point	nits targe	t center							
4-5D-45 BTR_Section	0.00	0.00	0.00	0.00	0.00	669,615.48	2,285,536.19	40° 10' 2.280 N	110° 28' 41.671 W
- actual wellpath h - Polygon Point 1 Point 2 Point 3 Point 4 Point 5	nits targe	t center	3 3 -1	,986.00 75; ,986.00 -1,85; ,292.00 -1,91;	5.00 67 7.00 66 2.00 66	70,415.90 2 67,804.29 2 67,689.01 2	2,284,235.76 2,289,512.97 2,289,542.81 2,284,266.22 2,284,235.76		20 1101111
4-5D-45 BTR_Setba	0.00	0.00	0.00	0.00	0.00	669,615.48	2,285,536.19	40° 10' 2.280 N	110° 28' 41.671 W
- actual wellpath h - Polygon Point 1 Point 2 Point 3 Point 4 Point 5	nits targe	t center	3 3 -	,326.00 95 ,326.00 -1,85 -632.00 -1,912	5.00 66 7.00 66 2.00 66	69,748.46 2 67,796.75 2 67,696.55 2	2,284,903.20 2,288,860.61 2,288,882.90 2,284,926.13 2,284,903.20		

North Reference Sheet for Sec. 5-T4S-R5W - 4-5D-45 BTR - Plan A

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to RKB 22' @ 5795.00ft (Nabors M22). Northing and Easting are relative to 4-5D-45 BTR

Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

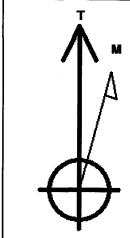
Central Meridian is 111° 30' 0.000 W°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 39' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99991560

Grid Coordinates of Well: 669,615.48 ft N, 2,285,536.19 ft E Geographical Coordinates of Well: 40° 10' 02.28" N, 110° 28' 41.67" W Grid Convergence at Surface is: 0.65°

Based upon Minimum Curvature type calculations, at a Measured Depth of 2,087.00ft the Bottom Hole Displacement is 9.73ft in the Direction of 247.07° (True).

Magnetic Convergence at surface is: -10.66° (10 March 2013, , BGGM2012)



Magnetic Model: BGGM2012 Date: 10-Mar-13

Declination: 1131 Inclination/Dip: 65.74° Field Strength: 52031

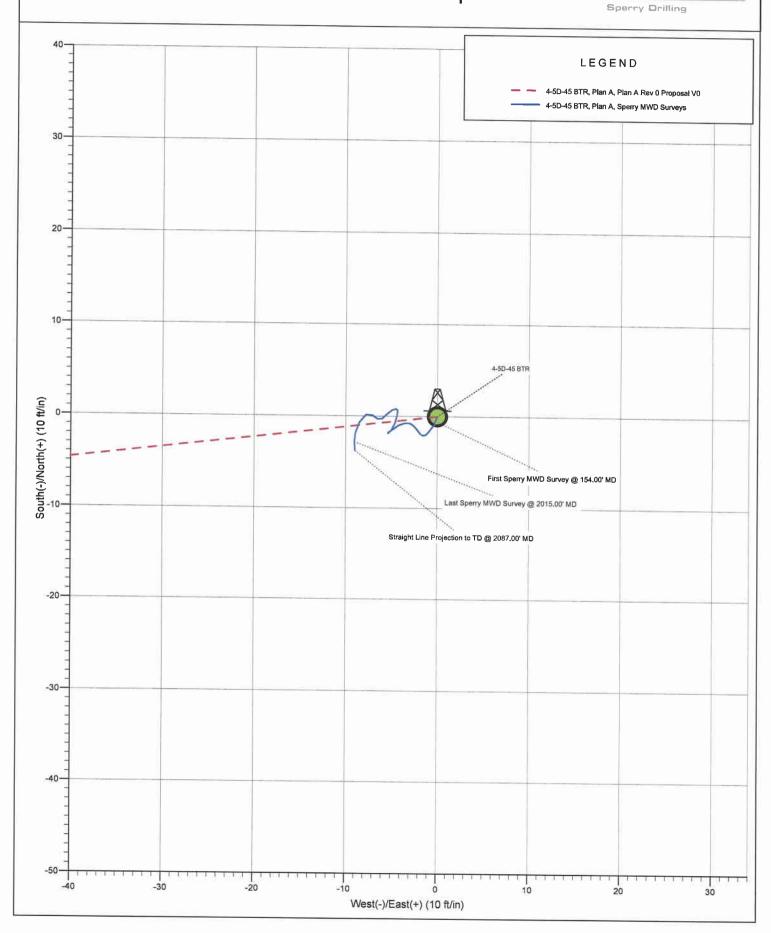
Grid North is 0.65° E ast of True North (Grid Convergence) Magnetic North is 11.31° East of True North (Magnetic Declination) Magnetic North is 10.66° East of Grid North (Magnetic Convergence)

To convert a True Direction to a Grid Direction, Subtract 0.65° To convert a Magnetic Direction to a True Direction, Add 11.31° East To convert a Magnetic Direction to a Grid Direction, Add 10.66°

Project: Duchesne County, UT (NAD 1927) Site: Sec. 5-T4S-R5W Well: 4-5D-45 BTR

Bill Barrett Corp



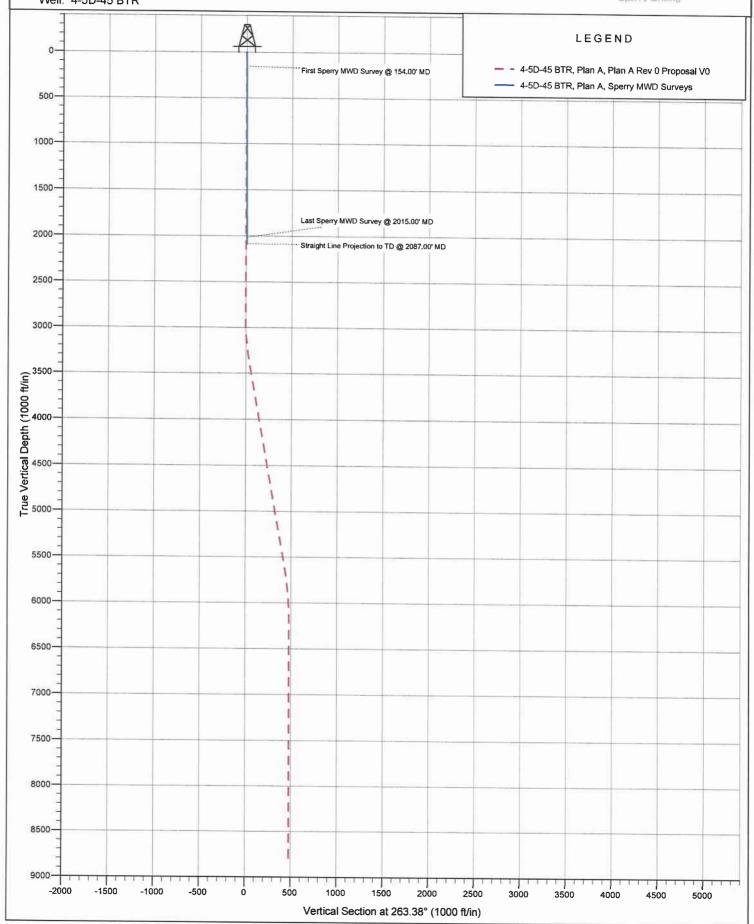


Project: Duchesne County, UT (NAD 1927)

Site: Sec. 5-T4S-R5W Well: 4-5D-45 BTR

Bill Barrett Corp





4-5D-	45 BTR	3/8/2	2013 0	6:00 - 3/9/2013	06:00			
4301351			state/Provinc JT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB)	Primary Job Type 0.0 Drilling & Completion
Time Lo	-	T						
Start Time		End Time		Category			Com	
06:00	24.00	06:00	1	RIGUP & TEARDOWN	MIRU, N	lud tanks and entire b		

Well Status

DRILLING

Rig down Prepare for trucks. Move camps.

otal Depth (ftKB)

Com

Primary Job Type

0.0 Drilling & Completion

4-5D-45 BTR 3/9/2013 06:00 - 3/10/2013 06:00 API/UWI

State/Province Well Status Total Depth (ftKB) Primary Job Type 43013512420000 UT Duchesne Black Tail Ridge DRILLING 0.0 Drilling & Completion Time Log

Start Time Dur (hr) End Time | Code Category Com 06:00 24.00 06:00 RIGUP & TEARDOWN Move and assemble Substructure and derrick. Derrick ready to raise.

4-5D-45 BTR 3/10/2013 06:00 - 3/11/2013 06:00

API/UWI State/Province County Field Name Well Status Total Depth (ftKB) Primary Job Type 43013512420000 UT Duchesne Black Tail Ridge DRILLING 0.0 Drilling & Completion Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	20.00	02:00	1	RIGUP & TEARDOWN	Raise derrick, Continue rig up.
02:00	2.50	04:30	21	T	Rig up conductor, flowline and turnbuckles.
04:30	1.50	06:00	21	OPEN	Rack & strap BHA

4-5D-45 BTR 3/11/2013 06:00 - 3/12/2013 06:00

State/Province County Field Name Well Status Total Depth (ftKB) Primary Job Type 43013512420000 UT Duchesne Black Tail Ridge DRILLING 0.0 Drilling & Completion Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	20	DIRECTIONAL WORK	P/U dir tools & orient drill to 179'
13:00	0.50	13:30	7	LUBRICATE RIG	Rig service
13:30	5.00	18:30	2	DRILL ACTUAL	Drig 179-317'.
18:30	0.50	19:00	7	LUBRICATE RIG	Rig service
19:00	11.00	06:00	2	DRILL ACTUAL	Drlg 317-997'. Survey @ 895' .42 inc 259 az. MW 8.6+#/gal 39 vis

3/12/2013 06:00 - 3/13/2013 06:00

API/UWI State/Province County ield Name Well Status Total Depth (ftKB) Primary Job Type 43013512420000 UT Duchesne Black Tail Ridge DRILLING 0.0 Drilling & Completion Time Log

Start Time	Dur (nr)	End time	Code	Category **	Com
06:00	20.50	02:30	2	DRILL ACTUAL	Drill 997' - 2083'.
02:30	3.50	06:00	21		Took gas kick, circulated pits & weight up to 9.5 ppg. Gas bubble to surface @ 05:00, flash fire on floor. Drill line parted @ 05:15, dropped top drive to floor. @ 06:00 circulating 9.5 kill mud @ 110 strokes, 1200 psi.
4					·

3/13/2013 06:00 - 3/14/2013 06:00 4-5D-45 BTR

Count

State/Province

Well Status Total Depth (ftKB) Primary Job Type 43013512420000 UT Black Tail Ridge Duchesne DRILLING 0.0 Drilling & Completion Time Log Start Time Dur (hr) End Time Code 06:00 24.00 06:00 COND MUD & CIRC Circulate well @ 110 strokes, 9.5 ppg, 46 vis until 23:00, raised mw to 9.8 ppg. BBC and Nabors safety standdown, planning for remedial action.

4-5D-45 BTR 3/14/2013 06:00 - 3/15/2013 06:00

API/IIW/I County Field Name Well Status Total Depth (ftKB) Primary Job Type 43013512420000 UT Duchesne Black Tail Ridge DRILLING 0.0 Drilling & Completion Time Loa

Start Time		End Time	Code	Category	Com
06:00	24.00	06:00	5	COND MUD & CIRC	Circulate well @ 110 strokes, 1200 psi. Fire marshall inspected rig. Rigged up 500 ton crane, pulled catwalk out of way.

API/UWI



API/UWI			State/Province	e County	Field Name	e	Well Status	Īτ	otal Depth (ftKB)	Primary Job Type
	2420000	\	JT	Duchesne	Black Ta	ail Ridge	DRILLING	"	ital Deptil (Iti\B)	0.0 Drilling & Completion
ime Lo	g								*	c.o Bhining & Completion
Start Time	Dur (hr)	End Time		Category		<u> </u>			Com	-
06:00	13.00	19:00	5	COND MUD & CIRC		jarive. Fic	well @ 110 strokes, w check, pull top driv stablish PIR (1 bpm-	ve up and so	ut counterweig	nts on crane, tied on to top ling line and tie off, remove -143 psi).
19:00	2.50	21:30	21	OPEN			wireline, perforate H			
21:30	6.00	03:30	5	COND MUD & CIRC			/wait on cement.			- <u> </u>
4-5D-	45 BTR	3/16	/2013	06:00 - 3/17/20	13 06:00)	· · · · · · · · · · · · · · · · · · ·			
PI/UWI		S	tate/Provinc		Field Name		Well Status	ITC	tal Depth (ftKB)	Primary Job Type
	2420000		JT	Duchesne	Black Ta	ail Ridge	DRILLING	"	ica Depar (itre)	0.0 Drilling & Completion
Time Lo										3
Start Time	Dur (hr)	End Time	Code	Category					Com	
06:00 2:00		12:00 14:00	5	COND MUD & CIRC		Circulate	well @ 70 strokes, 7	25 psi/wait	on cement.	
						4.15 yld, 2.28 yld, pressure	27.82 gps H2O. Mix 10.48 gps H2O @ 4 400 psi. Returned 25 and flushed conducto	and pump 6 bpm. Pump 5 bbls cmt to	10 sx(247 bbls 3.5 bbls to clean surface. Cemo	tuned lite spacer @ 10.5 ppg) tuned light cement @ 11 ppg ar lines. Full returns, max ent fell 6" in 45 minutes. and okayed by Glade Rich of
4:00	16.00	06:00	13	WAIT ON CEMENT		Wait on c	ement. Checked cmt	t @ 23:00, t	oo soft to cut o	f.
1-5D-	45 BTR	3/17/	2013	06:00 - 3/18/20	13 06:00)		-		
API/UWI		s	tate/Provinc		Field Name		Well Status	ITo	tal Depth (ftKB)	Primary Job Type
<u> 1301351</u>	2420000	u	JT	Duchesne	Black Ta	ail Ridge	DRILLING	1.3	idi Bepui (idi(b)	0.0 Drilling & Completion
ime Lo	g						-			o.o Driving & Completion
tart Time	Dur (hr)	End Time	Code	Category					Com	
6:00	4.00	10:00	13	WAIT ON CEMENT		WOC. Re	pair rig.		5311	
	6.00	16:00	21	OPEN	Used gas sniffer on DP and conductor, no indications of gas. Cut on conductor, Gas indications up through cement. Cut off conductor and DP, weld 1/2" plate w/2" 3000# ball valve on top of conductor. Well contained, BLM and State contacted.					
6:00	14.00		<u> </u>			Dail Valve	on top of conductor.	AACH COHIN	neu, blivi and	State contacted.

	STATE OF UTAH		FORM 9
ı	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	G	5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626261
SUNDR	Y NOTICES AND REPORTS ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	posals to drill new wells, significantly dee reenter plugged wells, or to drill horizontal n for such proposals.	pen existing wells below laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 4-5D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013512420000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300		ONE NUMBER: 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0755 FNL 1292 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNW Section:	IIP, RANGE, MERIDIAN: 05 Township: 04.0S Range: 05.0W Meridia	ın: U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICATE N	NATURE OF NOTICE, REPOF	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start:			
SUBSEQUENT REPORT	☐ CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
Date of Work Completion:	L DEEPEN L	FRACTURE TREAT	☐ NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
3/1/2013		SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
l .	COMPLETED OPERATIONS. Clearly show all pthe March 2013 Drilling Activit		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 17, 2013
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst	
SIGNATURE	,	DATE	
N/A		4/5/2013	



4 ED	45 DTD	0171	2040.0	0.00 0/0/0040					
-5D-	45 B I R		2013 2 State/Province	2:00 - 3/8/2013	Field Nam	9	Well Status	Total Depth (ftKB)	Primary Job Type
301351	2420000		UT	Duchesne		ail Ridge	DRILLING		0.0 Drilling & Completion
me Lo	Dur (hr)	End Time	Code	Category		I		Com	
:00	, ,	06:00	1	RIGUP & TEARDOWN		Rig dowr	Prepare for trucks. I		
	45 BTR	3/8/2	2013 0	6:00 - 3/9/2013	06:00				
i/∪WI 01351	2420000		State/Provinc UT	County Duchesne	Field Nam Black Ta	ail Ridge	Well Status DRILLING	Total Depth (ftKB)	Primary Job Type On Drilling & Completion
me Lo	<u> </u>					1			
art Time 6:00	Dur (hr) 24.00	End Time	Code 1	Category RIGUP & TEARDOWN		MIRU. M	ud tanks and entire b	Com packvard set in.	
	45 BTR		2013 0	6:00 - 3/10/201		,			
7/UWI 301351	2420000		State/Provinc	County Duchesne	Field Nam Black T	ail Ridge	Well Status DRILLING	Total Depth (ftKB)	Primary Job Type 0.0 Drilling & Completion
me Lo							-		3
art Time	Dur (hr)	End Time		Category		M	dbl- Oub-ton-	Com	4
5:00	24.00		1	RIGUP & TEARDOWN			d assemble Substruc	ture and derrick. Derrick ready	to raise.
	45 BTR			06:00 - 3/11/20			Two II Out	IT : 15 (1 222)	Industrial T
1/UWI 801351	2420000		State/Provinc UT	County Duchesne	Field Nam Black Ta	e ail Ridge	Well Status DRILLING	Total Depth (ftKB)	Primary Job Type 1.0 Drilling & Completion
me Lo									
rt Time	Dur (hr)	End Time		Category				Com	
:00	20.00		1	RIGUP & TEARDOWN			rrick, Continue rig up		
:00		04:30	21	OPEN			onductor, flowline and	turnduckies.	
:30		06:00	21	OPEN	10.00		trap BHA		
-5D-	45 BTR			06:00 - 3/12/20			TWAII Ctatus	Total Double (fil/D)	Dimen leb Time
	2420000		State/Provinc UT	County Duchesne	Field Nam Black Ta	e ail Ridge	Well Status DRILLING	Total Depth (ftKB)	Primary Job Type 1.0 Drilling & Completion
me Lo	g			, 	<u> </u>	<u> </u>		<u> </u>	, ,
art Time	Dur (hr)	End Time		Category		D/L dis to	ala 0 ariant drill to 4	Com	
00:00		13:00	20 7	DIRECTIONAL WORK			ools & orient drill to 17	79	
3:00 3:30		13:30 18:30	2	DRILL ACTUAL		Rig servi			
3:30			7	LUBRICATE RIG		Rig servi			
9:00	11.00		2	DRILL ACTUAL		"		.42 inc 259 az. MW 8.6+#/gal	39 vis
	45 BTR			06:00 - 3/13/20	13 06:0		337 . Guivey @ 333	.42 1110 200 d2. 1111V 0.011//gdi	00 110
PI/UWI		1	State/Provinc	e County	Field Nam	Э	Well Status	Total Depth (ftKB)	Primary Job Type
	2420000		UT	Duchesne	Black T	ail Ridge	DRILLING	C	.0 Drilling & Completion
me Lo	Dur (hr)	End Time	Code	Category				Com	
:00	20.50		2	DRILL ACTUAL		Drill 997'	- 2083'.		
2:30	3.50	06:00	21	OPEN		flash fire	on floor. Drill line par	& weight up to 9.5 ppg. Gas butted @ 05:15, dropped top driv	
- FD	15 DTD	2/12	/2012	06:00 - 3/14/20	12 06:0	L	g 9.5 kill mud @ 110	strokes, 1200 psi.	
PI/UWI	45 BTR		State/Province		Field Nam		Well Status	Total Depth (ftKB)	Primary Job Type
	2420000	l	UT	Duchesne	Black T	ail Ridge	DRILLING	C	.0 Drilling & Completion
ime Lo		End Time	Code	0-1				Com	
art Time 6:00	Dur (hr) 24.00	End Time	Code 5	Category COND MUD & CIRC				9.5 ppg, 46 vis until 23:00, rais	sed mw to 9.8 ppg. BBC a
- FD	45 BTR	3/14	/2013	06:00 - 3/15/20	13 06:0		- 76.5	-	
-JU-			State/Provinc	County Duchesne	Field Nam	e ail Ridge	Well Status DRILLING	Total Depth (ftKB)	Primary Job Type O Drilling & Completion
PI/UWI	2420000		01	Buerlearie	Didok 1	all relage	DIVIELING		.o Brilling & Completion
PI/UWI 301351	2420000 g								
PI/UWI 301351 ime Lo tart Time	g Dur (hr)	End Time		Category				Com	
PI/UWI	g		Code 5	Category COND MUD & CIRC			well @ 110 strokes, illed catwalk out of w	1200 psi. Fire marshall inspec	ted rig. Rigged up 500 tor



२ ०१२८१	2420000		state/Province		County Duchesne	Field Name Black Ta		Well Status DRILLING	Total Depth ((ftKB) Primary Job Type 0.0 Drilling & Completion
ne Lo			71		Ducheshe	DIACK 1	ili Kluge	DRILLING		0.0 Drilling & Completion
rt Time		End Time	Code		Category				Com	
5:00	13.00	19:00	5	COND M	IUD & CIRC		drive. Flo		e up and set slips.	terweights on crane, tied on to top Cut drilling line and tie off, remove i;3 bpm-143 psi).
:00	2.50	21:30	21	OPEN			R/U DCT	wireline, perforate H	WDP @ 1666'.	
:30	6.00	03:30	5	COND M	IUD & CIRC		C&C hole	e/wait on cement.		
-5D-	45 BTR	3/16/	/2013 (06:00	- 3/17/201	3 06:00)			
PI/UWI	2420000		state/Province		County	Field Name		Well Status DRILLING	Total Depth (
me Lo	2420000		71		Duchesne	Black Ta	all Riage	DRILLING		0.0 Drilling & Completion
art Time	Dur (hr)	End Time	Code		Category				Com	
6:00		12:00	5		IUD & CIRC			well @ 70 strokes, 72	•	
2:00	2.00	14:00	17	PLUG BA	ACK		4.15 yld, 2.28 yld, pressure	27.82 gps H2O. Mix a 10.48 gps H2O @ 4 I 400 psi. Returned 25 and flushed conducto	and pump 610 sx(2 opm. Pump 3.5 bbls bbls cmt to surface	30 bbls tuned lite spacer @ 10.5 pp 247 bbls) tuned light cement @ 11 p s to clear lines. Full returns, max e. Cement fell 6" in 45 minutes. essed and okayed by Glade Rich o
4:00	16.00	06:00	13	MAIT OF	N CEMENT		Wait on o	cement. Checked cmt	@ 23:00, too soft t	to cut off.
I-5D-	45 BTR	3/17/	/2013	06:00	- 3/18/201	3 06:00)			
	2420000		state/Province		County Duchesne	Field Name Black Ta		Well Status DRILLING	Total Depth ((ftKB) Primary Job Type 0.0 Drilling & Completion
ime Lo tart Time	Dur (hr)	End Time	Code		Category				Com	
6:00	4.00	10:00	13	10 TIAW	N CEMENT		WOC. R	epair rig.	Com	
0:00	6.00	16:00	21	OPEN			indication	ns up through cement	. Cut off conductor	tions of gas. Cut on conductor, Gas and DP, weld 1/2" plate w/2" 3000 LM and State contacted.
6:00	14.00	06:00	8	REPAIR	RIG		Removed removal.	d and replaced top dri	ve, blocks, ST-80 i	ron roughneck. Drawworks readied
							TOTTIO Val.			
	45 BTR	3/18/	/2013 (06:00	- 3/19/201	13 06:00				
PI/UWI		S	state/Province	e C	County	Field Name)	Well Status	Total Depth (
PI/UWI 301351	2420000	S		e C)	Well Status DRILLING	Total Depth ((ftKB) Primary Job Type 0.0 Drilling & Completion
PI/UWI 301351 me Lo art Time	2420000 Pg Dur (hr)	S L End Time	State/Province	e [C	County Duchesne Category	Field Name) eail Ridge	DRILLING	Com	0.0 Drilling & Completion
PI/UWI 301351 me Lo art Time	2420000 Pg Dur (hr)	S	state/Province	e C	County Duchesne Category	Field Name	ail Ridge Set rotar	DRILLING	Com	
PI/UWI 301351 ime Lo tart Time 6:00	2420000 Pg Dur (hr) 24.00	End Time	tate/Province JT Code	e C	County Duchesne Category	Field Name Black Ta	Set rotar system w	DRILLING y table on floor, move with crane.	Com crane. Remove &	0.0 Drilling & Completion
ime Lo art Time 6:00	2420000 Pg Dur (hr) 24.00 -45 BTR	End Time 06:00	Code 8 /2013 (btate/Province)	REPAIR 06:00 e 0	County Duchesne Category RIG - 3/20/201 County	Field Name Black Ta	Set rotar system w	y table on floor, move ith crane.	Com	0.0 Drilling & Completion replace drawworks. Set walking (ftKB) Primary Job Type
91/UWI 301351 ime Lotart Time 6:00 1-5D- PI/UWI 301351	2420000 g Dur (hr) 24.00 -45 BTR 2420000	End Time 06:00	tate/Province JT Code 8	REPAIR 06:00 e 0	County Duchesne Category RIG - 3/20/201	Field Name Black Ta	Set rotar system w	DRILLING y table on floor, move with crane.	Com crane. Remove &	0.0 Drilling & Completion
901351 ime Lo art Time 6:00 -5D- P/UWI 301351 ime Lo	2420000 Pg Dur (hr) 24.00 P45 BTR 2420000 Pg Dur (hr)	End Time 06:00	Code 8 /2013 (itate/Province	REPAIR 06:00 e 0	County Duchesne Category RIG - 3/20/201 County	Field Name Black Ta	Set rotar system w	y table on floor, move with crane.	Com crane. Remove &	0.0 Drilling & Completion replace drawworks. Set walking (ftKB) Primary Job Type 0.0 Drilling & Completion
21/UWI 301351 ime Lot tart Time 6:00 1-5D- 21/UWI 301351 ime Lot tart Time	2420000 Pg Dur (hr) 24.00 P45 BTR 2420000 Pg Dur (hr)	End Time 06:00	Code 8 /2013 (itate/Province	REPAIR 06:00 e 0	County Duchesne Category RIG - 3/20/20* County Duchesne Category	Field Name Black Ta	Set rotar system w ail Ridge Had to re walking s	y table on floor, move ith crane. Well Status DRILLING	Com Crane. Remove &	0.0 Drilling & Completion replace drawworks. Set walking (ftKB) Primary Job Type
PI/UWI 4301351 Time Lo Start Time 06:00 4-5D- PI/UWI 4301351 Time Lo Start Time 06:00	2420000 Pg Dur (hr) 24.00 P45 BTR 2420000 Pg Dur (hr)	End Time 06:00 S L	Code ZOT Code State/Province ZOT Code Code R Code R Code R	REPAIR 06:00 REPAIR	County Duchesne Category RIG - 3/20/20* County Duchesne Category	Field Name Black Ta	Set rotar system w ail Ridge Had to re walking s and hydre	y table on floor, move yith crane. Well Status DRILLING emove DW (wrong sty system. Rearranged h	Com Crane. Remove &	0.0 Drilling & Completion replace drawworks. Set walking (ftKB) Primary Job Type 0.0 Drilling & Completion ement. Install new DW. Finish setting
1-5D-PI/UWI 301351 ime Lotart Time 6:00 1-5D-PI/UWI 301351 ime Lotart Time 6:00	2420000 Pg Dur (hr) 24.00 -45 BTR 2420000 Pg Dur (hr) 24.00 -45 BTR	End Time 06:00	Code Code 8 Code Cod	REPAIR 06:00 REPAIR 06:00 REPAIR	County Duchesne Category RIG - 3/20/201 County Duchesne Category RIG - 3/21/201 County	Field Name Black Ta 13 06:00 Field Name Black Ta	Set rotar system w Had to re walking s and hydr	y table on floor, move with crane. Well Status DRILLING emove DW (wrong stypystem. Rearranged haulic components.	Com Crane. Remove &	0.0 Drilling & Completion replace drawworks. Set walking (ftKB) Primary Job Type 0.0 Drilling & Completion ement. Install new DW. Finish setting date skid. Replace and repair electric (ftKB) Primary Job Type
201351 ime Lot tart Time 6:00 I-5D- 2010WI 301351 ime Lot tart Time 6:00	2420000 Pg Dur (hr) 24.00 -45 BTR 2420000 Pg Dur (hr) 24.00 -45 BTR	End Time 06:00	Code 8 /2013 (Code 8 /2013 (Code 8 /2013 (Code 8	REPAIR 06:00 REPAIR 06:00 REPAIR	County Duchesne Category RIG - 3/20/20* County Duchesne Category RIG - 3/21/20*	Field Name Black Ta	Set rotar system w Had to re walking s and hydr	y table on floor, move with crane. Well Status DRILLING emove DW (wrong sty system. Rearranged haulic components.	Com crane. Remove & Total Depth (Com le), wait on replace ousing to accomod	0.0 Drilling & Completion replace drawworks. Set walking (ftKB) Primary Job Type 0.0 Drilling & Completion ement. Install new DW. Finish setting date skid. Replace and repair electric
301351 ime Lot tart Time 6:00 I-5D- PI/UWI 301351 ime Lot tart Time 6:00	2420000 Pg Dur (hr) 24.00 -45 BTR 2420000 Pg Dur (hr) 24.00 -45 BTR	End Time 06:00	Code Code 8 Code Cod	REPAIR 06:00 REPAIR 06:00 REPAIR	County Duchesne Category RIG - 3/20/201 County Duchesne Category RIG - 3/21/201 County	Field Name Black Ta 13 06:00 Field Name Black Ta	Set rotar system w Had to re walking s and hydr	y table on floor, move with crane. Well Status DRILLING emove DW (wrong stypystem. Rearranged haulic components.	Com crane. Remove & Total Depth (Com le), wait on replace ousing to accomod	0.0 Drilling & Completion replace drawworks. Set walking (ftKB) Primary Job Type 0.0 Drilling & Completion ement. Install new DW. Finish setting date skid. Replace and repair electric (ftKB) Primary Job Type
301351 ime Lo art Time 6:00 -5D- P/UWI 301351 ime Lo art Time 6:00	2420000 g Dur (hr) 24.00 -45 BTR 2420000 g Dur (hr) 24.00 45 BTR 2420000 g Dur (hr) 2420000 g Dur (hr)	End Time 06:00	Code Code 8 Code Code	REPAIR 06:00 REPAIR 06:00 REPAIR	County Duchesne Category RIG - 3/20/20* County Duchesne Category RIG - 3/21/20* County Duchesne Category Category Category Category Category Category Category Category Category	Field Name Black Ta 13 06:00 Field Name Black Ta	Set rotar system w ail Ridge Had to re walking s and hydr ail Ridge Continue	y table on floor, move with crane. Well Status DRILLING Pernove DW (wrong stysystem. Rearranged haulic components.	Com Total Depth (Com le), wait on replace ousing to accomod Total Depth (Com tary table, various of	replace drawworks. Set walking (ftKB) Primary Job Type 0.0 Drilling & Completion ement. Install new DW. Finish setting date skid. Replace and repair electric (ftKB) Primary Job Type 0.0 Drilling & Completion components. Walked rig 30' east
1-5D-PI/UWI 301351 ime Lot tart Time 6:00	2420000 g Dur (hr) 24.00 -45 BTR 2420000 g Dur (hr) 24.00 45 BTR 2420000 g Dur (hr) 2420000 g Dur (hr)	End Time 06:00 S L End Time 06:00 S L End Time 06:00 S L End Time 06:00 C C C C C C C C C	Code	REPAIR 06:00 REPAIR 06:00 REPAIR	County Duchesne Category RIG - 3/20/20* County Duchesne Category RIG - 3/21/20* County Duchesne Category Category Category Category Category Category Category Category Category	Field Name Black Ta 13 06:00 Field Name Black Ta 13 06:00 Field Name Black Ta	Set rotar system w Set rotar system w Had to re walking s and hydr ail Ridge Continue removed	y table on floor, mover ith crane. Well Status DRILLING emove DW (wrong stysystem. Rearranged haulic components. Well Status DRILLING Installation of DW, ro	Com Total Depth (Com le), wait on replace ousing to accomod Total Depth (Com tary table, various of	replace drawworks. Set walking (ftKB) Primary Job Type 0.0 Drilling & Completion ement. Install new DW. Finish setting date skid. Replace and repair electric (ftKB) Primary Job Type 0.0 Drilling & Completion components. Walked rig 30' east
4-5D- PI/UWI 1301351 Fime Lo Start Time 16:00 4-5D- PI/UWI 1301351 Fime Lo Start Time 16:00 4-5D- PI/UWI 1301351 Fime Lo Start Time 16:00	2420000 Pg Dur (hr) 24.00 -45 BTR 2420000 Pg Dur (hr) 24.00 -45 BTR 2420000 Pg Dur (hr) 24.00 -90 Dur (hr) 24.00	End Time 06:00 S L End Time 06:00 S L	Code	REPAIR 06:00 REPAIR 06:00 REPAIR 06:00	County Duchesne Category RIG - 3/20/20* County Duchesne Category RIG - 3/21/20* County Duchesne Category RIG Category RIG Category RIG	Field Name Black Ta 13 06:00 Field Name Black Ta 13 06:00 Field Name Black Ta	Set rotar system w Set rotar system w Had to re walking s and hydr Continue removed	y table on floor, mover ith crane. Well Status DRILLING emove DW (wrong stysystem. Rearranged haulic components. Well Status DRILLING Installation of DW, ro	Com Total Depth (Com le), wait on replace ousing to accomod Total Depth (Com vary table, various of	replace drawworks. Set walking (ftkB) Primary Job Type 0.0 Drilling & Completion ement. Install new DW. Finish setting date skid. Replace and repair electric date skid. Replace and repair electric date skid. Primary Job Type 0.0 Drilling & Completion components. Walked rig 30' east in Engineering.

Time Lo									
Start Time 06:00	Dur (hr)	End Time	Code 8	Category REPAIR RIG	-	Popoir ria	Modify DW akid be	Com	chanics and electricians hook
00.00	24.00	06.00	0	REPAIR RIG	u	ıp, troubl			chanics and electricians flook another 20', remove matting
4-5D-	45 BTR	3/22	/2013	3 06:00 - 3/23/20	13 06:00				
PI/UWI	2420000		State/Provi	County Duchesne	Field Name Black Tail	Ridge	Well Status DRILLING	Total Depth (ftKB)	Primary Job Type 0.0 Drilling & Completion
Time Lo			<u> </u>	Duonesne	Black Tall	rtiage	DIVILLING		0.0 Diming a Completion
Start Time	Dur (hr)	End Time		Category			1	Com	# L + # L DOD
06:00	12.00	18:00	8	REPAIR RIG			w chips in topdrive, to 100% repaired.	est same. Walked rig baci	k over well. Install I-BOP, save
18:00	12.00	06:00	14	NIPPLE UP B.O.P		abricate		ng wiper bowl. HSM with a	all personnel, Well cap vented,
4-5D-	45 BTR	3/23	/ 2013	3 06:00 - 3/24/20		- Corida	10101 011.		
API/UWI	70 D III		State/Provi		Field Name		Well Status	Total Depth (ftKB)	Primary Job Type
	2420000		UT	Duchesne	Black Tail	Ridge	DRILLING		0.0 Drilling & Completion
Time Lo Start Time	g Dur (hr)	End Time	Code	Category				Com	
06:00	, ,	06:00	14	NIPPLE UP B.O.P		Did not ge	et conductor cut off, t		tut csg w/air saw. NU drilling
									esg on cellar bottom. Hook up her to flare box. Rig up floor.
	45 BTR			3 06:00 - 3/25/20					
API/UWI 4301351	2420000		State/Provii UT	County Duchesne	Field Name Black Tail	Ridge	Well Status DRILLING	Total Depth (ftKB)	Primary Job Type 0.0 Drilling & Completion
Time Lo								,	
Start Time	Dur (hr)	End Time	Code	NIPPLE UP B.O.P		lean ara	as remove tubulars s	Com Aff location to relocate flar	e box. Weld and fabricate bloo
00.00	21.00	03.00	14	NIFFLE OF B.O.F					oughneck, hydraulic leaks.
03:00		06:00	21	OPEN	le		Il personnel; operation lectrical faults, catwa		er DP. Troubleshoot hydraulic
	45 BTR			3 06:00 - 3/26/20					
API/UWI 4301351	2420000		State/Provi UT	County Duchesne	Field Name Black Tail	Ridae	Well Status DRILLING	Total Depth (ftKB)	Primary Job Type 0.0 Drilling & Completion
Time Lo				1= ====================================	1=10.001.10				
Start Time	Dur (hr)	End Time		Category		21.10.11	0.405 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	Com	. 501
06:00	24.00	06:00	19	FISHING	to s	ool jt. X/0 shoe over spotty from	D mills, won't mill off.	Toh, determined to be be ver. Wash f/25' - 340'. Ce	over to 56', acted like milling on eside DP. Drain stack, guide ment had no integrity until 250'
	45 BTR			3 06:00 - 3/27/20					
api/uwi 4301351	2420000		State/Provi UT	County Duchesne	Field Name Black Tail	Ridge	Well Status DRILLING	Total Depth (ftKB)	Primary Job Type 0.0 Drilling & Completion
Time Lo			_	•				•	
Start Time 06:00	Dur (hr) 4.50	End Time 10:30	Code 19	FISHING			er DP 340' - 429'. Ce ppg, vis 40 spq.	Com ment spotty, short interva	ls(2'-15') hard, mostly soft.
10:30	0.50	11:00	7	LUBRICATE RIG	F	Rig servic	ce. Check COM.		
11:00	6.50	17:30	19	FISHING	h	Wash over DP 429' - 684'. Wob 3-5k. Cmt firmer, still green. Intermittent gas, 2767 units highest. Venting through gas buster, no flare. MW - 9.8 ppg, vis 39 spg.			
17:30	1.50	19:00	5	COND MUD & CIRC		C&C mud	I, raise mw to 10 ppg		
19:00		22:00	6	TRIPS				drag, hole filled properly.	
22:00	8.00	06:00	6	TRIPS			ill shoe, 12 jts 10" Weeting - housekeepin		ing 8.125 and 7.625 WP.
4-5D-	45 BTR	3/27	/2013	3 06:00 - 3/28/20		3.9 1110	guusokoopiii		
API/UWI			State/Provi		Field Name		Well Status	Total Depth (ftKB)	Primary Job Type
			UT	Duchesne	Black Tail		DRILLING	1 ' ` '	0.0 Drilling & Completion



Time Lo	g				
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	6	TRIPS	Wash to bottom. Hole clean.
09:00	7.00	16:00	19	FISHING	Wash over fish 684' - 1058'. Cement firm but still green.
16:00	1.00	17:00	5	COND MUD & CIRC	C&C mud.
17:00	5.00	22:00	6	TRIPS	LD WP. Hole clean, filled properly, no drag.
22:00	1.00	23:00	19	FISHING	PU overshot, grapple, packoff, latch on to DP.
23:00	7.00	06:00	19	FISHING	Remove Pragma and clean catwalk area. RU crane, Cudd. Transfer mud from shaker pits to suction pits, clean same, fill with 9.5# brine.

4-5D-45 BTR 3/28/2013 06:00 - 3/29/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512420000	UT	Duchesne	Black Tail Ridge	DRILLING	0.0	Drilling & Completion

Time Log	g				
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	19	FISHING	Supersuck shaker pits, fill w/200 bbls 10# brine, cut back to9.5#.
09:00	6.00	15:00	19	FISHING	Wait on X-overs
15:00	2.00	17:00	19	FISHING	Release overshot from fish top. Laydown 5 3/4" washpipe subs and over shot. P/U 8 1/8" overshot and 4.5" 16.6# Drill pipe subs Engage fish. Pull 5K over string. Set slips and put CTU back on well.
17:00	12.00	05:00	19	FISHING	Est pump rate of .9 bpm @ 4200#. RIH drill cmt to 739'. Well flowing over conductor. Discovered plugged flowline causing returns to back up. Cleaned out flowline and resumed drilling. Fell thru cmt @ 1675'. RIH to 1950. Clrc clean and POH.
05:00	1.00	06:00	19	FISHING	Toh w/coiled tubing.

4-5D-45 BTR 3/29/2013 06:00 - 3/30/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512420000	UT	Duchesne	Black Tail Ridge	DRILLING	0.0	Drilling & Completion

10010011	- 120000	·	, i	Badricono	Black Tall Hage	DIVILLIA	e.e Brining & Completion				
Time Log	Time Log										
Start Time	Dur (hr)	End Time	Code	Category		Com					
06:00	10.00	16:00	19	FISHING	to freepoi Pickup 2	nt. Pulled off of fish top. POH	Pragma and catwalk in. Rig up wireline and RIH wireline. Redress overshot and get on fish again. and work overshot down on fishtop. Pick up to				
16:00	8.00	00:00	19	FISHING		ireline and run freepoint. Pipe 1016' Backoff successful. PC	free @ 1016', 1047' 50% stuck @ 1229'.Run DH wireline.				
00:00	3.50	03:30	19	FISHING	Circulate	brine out of hole. CIrculate and	d condition mud.				
03:30	2.50	06:00	19	FISHING	FIII trip ta	nks. Do flow check. HSM Pull	up and L/D overshot and TOH.				

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BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# Nabors Submitted By Pat Clark Phone Number 303-35	
Well Name/Number <u>4-5D-45 BTR</u>	<u> </u>
Qtr/Qtr NW/NW Section 5 Township 4S Range	5W_
Lease Serial Number <u>1420H626261</u> API Number 43-013-51242	
7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Spud Notice — Spud is the initial spudding of the well, rout below a casing string.	not drilling
Date/Time AM Description PM Description	
Casing — Please report time casing run starts, not ceme times. Surface Casing Intermediate Casing Production Casing Liner Other	enting
Date/Time <u>4/14/2013</u> 7:00 AM ☐ PM ⊠	
BOPE Initial BOPE test at surface casing point BOPE test at intermediate casing point 30 day BOPE test Other	RECEIVED APR 1 3 2013 DIV. OF OIL, GAS & MINING
Date/Time AM PM	
Remarks <u>Times are estimated</u>	

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOLUTION OF OIL, GAS, AND M		5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626261
SUNDF	RY NOTICES AND REPORT	S ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
Do not use this form for pro- current bottom-hole depth, FOR PERMIT TO DRILL form	oposals to drill new wells, significan reenter plugged wells, or to drill hor n for such proposals.	tly deepen existing wells below izontal laterals. Use APPLICATION	T INIT OA A ORFENENT NAME
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 4-5D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013512420000		
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0755 FNL 1292 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 05 Township: 04.0S Range: 05.0W	Meridian: U	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDIC	CATE NATURE OF NOTICE, REPO	PRT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly she the April 2013 Drilling Ac		CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL APD EXTENSION OTHER: depths, volumes, etc. Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 03, 2013
NAME (PLEASE PRINT)	PHONE NU		
Brady Riley SIGNATURE N/A	303 312-8115	Permit Analyst DATE 5/3/2013	

RECEIVED: May. 03, 2013



4-5D-	45 BTR	4/1/2	2013 0	06:00 - 4/	2/2013	06:00						
API/UWI	70 D I I I		State/Province			Field Name		Well Status	Т	otal Depth (ftKB)		rimary Job Type
	2420000	ι	JT	Duch	nesne	Black Ta	ail Ridge	COMPLETION			8,868.0	Orilling & Completion
Time Lo Start Time	g Dur (hr)	End Time	Code		Category		1			Com		
06:00	. ,	10:00	19	FISHING	Category			Point (DCT Wireline ashed Over To 1389)		Free to 1514	l' - Run St	ring Shot & Back- off @
10:00	2.50	12:30	19	FISHING			TOH W/	Fish (366') - Pump T	hru & Flus		Screw In :	Sub & Top Jt Of Fish
10.00	0.00	15.00	1.0	FIGURE				Shot At Btm Of Fish.		(0 \A/D A	-	
12:30		15:30	19	FISHING	DIO			O.D Shoe & 8 1/8" W	ash pipe -	7 5/8 " WP A	ssy - IIH	
15:30		16:00	/	LUBRICATE	RIG		Rig Servi	ce. 090' - Wash to Top Of	f O = == = = t /	@ 4000L W-	-h O F	:
16:00	14.00	06:00	19	FISHING				03'). Raised Visc f/ 40				
4-5D-	45 BTR		2013 0 State/Province	06:00 - 4/		06:00		Well Status	Гт	otal Danth (HVP)	T _F	Arimany Joh Type
	2420000		JT		nesne		e ail Ridge	COMPLETION		otal Depth (ftKB)		rimary Job Type Drilling & Completion
Time Lo	g										,	Ŭ i
Start Time	Dur (hr)	End Time			Category					Com		
06:00		01:00	19	FISHING				er Fish F/ 1492' to 16	•			
01:00	0.50	01:30	5	COND MUD	& CIRC			aluate Wellbore Cond ings Stable As Before		o Mud Gain C	or Loss, No	Increase In Gas (65
01:30	4.50	06:00	19	FISHING			Off. Cond	To Wash Over Fish fallitioning Mud & Evalua LOSS TO DATE). Taking V	Vt Periodically To Mill
	45 BTR	4/3/2	2013 0	6:00 - 4/	4/2013							
API/UWI 4301351	2420000		State/Province JT		/ nesne	Field Name	e ail Ridge	Well Status COMPLETION	T	otal Depth (ftKB)		rimary Job Type Drilling & Completion
Time Lo			<i>J</i> 1	Duci	icsi ic	Diack 1	all Riuge	COMPLETION			0,000.0	offilling & Completion
Start Time	Dur (hr)	End Time	Code		Category					Com		
06:00	3.50	09:30	19	FISHING			Wash Ov 1944' (12	er Fish in 12 1/4" Ope 24').	en Hole Ar	nnulas w/ 9.0'	O.D. Sho	e From 1820' to
09:30	0.50	10:00	5	COND MUD	& CIRC		C&C mud	i.				
10:00	3.00	13:00	6	TRIPS			TOH. LD	WP.				
13:00	1.50	14:30	6	TRIPS			PU skirte	d screw-in sub, TIH to	o 1350'.			
14:30	0.50	15:00	5	COND MUD	& CIRC		Circulate	BU.				
15:00	6.00	21:00	19	FISHING				to fish, can't fully torq n f/1944' - 1674' past (is turning. P	U 110k on	string, fish is free. TOH,
21:00	6.00	03:00	19	FISHING				g tools, remainder of f no loss, no gas.	fish. Run p	ipe in derrick	in hole, a	nd lay down. Hole filled
03:00	0.50	03:30	7	LUBRICATE	RIG		Rig Servi	ce.				
03:30	2.50	06:00	6	TRIPS			PU 8" MN	/I, dialed to straight. R	Racked & s	trapped 9 6.5	5" DCs, 27	4.5" HWDP.
4-5D-	45 BTR	4/4/2	2013 0	6:00 - 4/	5/2013	06:00						
API/UWI			State/Province			Field Name		Well Status	Т	otal Depth (ftKB)		Primary Job Type
	2420000	ι	JT	Duch	nesne	Black Ta	ail Ridge	COMPLETION			8,868.0	Orilling & Completion
Time Lo Start Time	g Dur (hr)	End Time	Code		Category		1			Com		
06:00		12:00	3	REAMING	Category			DP, clean hole out f/	1200' - 208		hing, som	e formation and cement.
12:00	1.00	13:00	5	COND MUD	& CIRC		C&C, pur	np 2 25 bbl sweeps 2				
13:00	4.50	17:30	2	DRILL ACTU	AL			' - 2170'. 594 gpm, sp	ū	•		h. Hole torquie in spots,
17:30	0.50	18:00	7	LUBRICATE	RIG			ce. Check COM.				
18:00		21:00	2	DRILL ACTU				' - 2292'. 594 gpm, sp	op 1450 ps	si, dp 175 psi.	rop 41 fpl	າ.
21:00		22:00	5	COND MUD				d, run 2 sweeps. Pum				
22:00		00:30	6	TRIPS	•			e in good shape, took		nount of fill, n	o losses. r	no gas.
00:30		06:00	12	RUN CASINO	3 & CEMEN	NT	RU caser		55, LT&C (sg as follows	: GS, 1 jt	csg, FC, 51 jts csg. Bow
4-5D-	45 BTR	4/5/2	2013 0	06:00 - 4/	6/2013	06:00	1 . 3		., .		, , -	•
API/UWI	0.400000		State/Province			Field Name		Well Status	Т	otal Depth (ftKB)		Primary Job Type
4301351	2420000	Į	JT	Duch	nesne	Black Ta	ail Ridge	COMPLETION			<u>გ</u> ,გ68.0 [Orilling & Completion

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Time Lo	g								
Start Time	Dur (hr)	End Time		Category					Com
06:00		09:00	5	COND MUD & CIRC			rubber, C&C mud f/cmt		
09:00	2.50	11:30	12	RUN CASING & CEMEN	Т	H2O. Mix gps H2O. gps H2O. clean line	and pump 340 sx(167.7 Mix and pump 385 sx(1 Wash lines, drop top pl s. Max pressure 950 ps	7 bbls) Ha 165.5 bbl lug, displa si, bump p	np 20 bbls H2O, 40 bbls superflush, 20 bb alcem lead cmt @ 11.8 ppg, 2.77 yld, 16.6 s) Halcem tail cmt @ 14.8 ppg, 1.37 yld, 6 ace w/173.5 bbls mud(last 20 bbls H2O to blug to 1506 psi, floats held. Full returns, 9 Ray Arnold of Vernal BLM.
11:30	6.50	18:00	13	WAIT ON CEMENT			et too quickly to 1", wait	t 6.5 hrs t	to relax pipe and cut off. Cement very hard
18:00	12.00	06:00	21	OPEN		ND riser,	annular, cut csg off, clea	an pits. R	Riser full of hard cement.
4-5D-	45 BTR	4/6/2	2013 0	6:00 - 4/7/2013 (06:00	•			
API/UWI			State/Province	I '	Field Nam		Well Status	Tot	tal Depth (ftKB) Primary Job Type
4301351 Time Lo	2420000	Į	JT	Duchesne	Black T	ail Ridge	COMPLETION		8,868.0 Drilling & Completion
Start Time	Dur (hr)	End Time	Code	Category					Com
06:00	, ,	10:00	21	OPEN		Weld on a		le cam-lo	ck w/3" steel nipple dropped in hole while
10:00	2.00	12:00	21	OPEN		Install ne	w Pason depth tracker b	oox and c	ord on crown.
12:00		17:00	15	TEST B.O.P		valves, ki to 2500 p koomey f	Il line valve, check valve si high, 250 psi low f/10 unction test. Test witnes	e, hcr to 5 min. Tes ssed by R	pipe & blind rams, choke line, manifold 5000 psi high, 250 psi low f/10 min. Test H st surface csg to 1500 psi f/30 min. Perforr kandy Bywater of Vernal NLM.
17:00		22:00	21	OPEN			ar bushing, rot head and	d flowline	s.
22:00		00:30	6	TRIPS			tooth bit, junk sub.		
00:30		06:00	21	OPEN			@ 2239', rot @ 60 - 75 i Drill to 2241', drilled junk		- 30 wob. Stroke junk sub, run high-vis lug, part of float collar.
	45 BTR	4/7/2	2013 0	6:00 - 4/8/2013 (06:00				
	2420000		State/Provinc JT	County Duchesne	Field Nam Black Ta	^e ail Ridge	Well Status COMPLETION	Tot	tal Depth (ftKB) Primary Job Type 8,868.0 Drilling & Completion
Time Lo Start Time	Dur (hr)	End Time	Code	Category					Com
06:00	2.50	08:30	6	TRIPS		Toh.			
08:30	2.00	10:30	20	DIRECTIONAL WORK		PU dir Bh	IA.		
10:30	2.00	12:30	6	TRIPS		Tih.			
12:30	3.50	16:00	21	OPEN			•		FC @ 2245', FS @ 2290'.
16:00	0.50	16:30	21	OPEN		1 .	•		psi for a 10.5 ppg EMW.
16:30	2.00	18:30	2	DRILL ACTUAL		Steerable	drlg 2310' - 2327'. Tore	quie, low	differential pressure,won't drill.
18:30	2.50	21:00	6	TRIPS		Pump pill BOP drill			
21:00		23:30	6	TRIPS		X/O Bit, N			
23:30		00:00	7	LUBRICATE RIG		Rig Servi			
00:00		01:00	2	DRILL ACTUAL		Drill 2327			
01:00	5.00	06:00	8	REPAIR RIG		Repair to	o drive brakes.		
4-5D-	45 BTR	4/8/2	2013 0	6:00 - 4/9/2013 (06:00				
API/UWI 4301351	2420000		State/Provinc JT	County Duchesne	Field Nam Black T	_e ail Ridge	Well Status COMPLETION	Tot	tal Depth (ftKB) Primary Job Type 8,868.0 Drilling & Completion
Time Lo		I = . =:	1						
Start Time 06:00	Dur (hr) 3.50	End Time 09:30	Code 2	DRILL ACTUAL		Steerable	drlg 2389' - 2642'. wob	15k, spp	Com o 1650 psi, dp 200 psi, rpm 51/83, rop 72 f
09:30	0.50	10:00	7	LUBRICATE RIG		Rig Servi	ce.		
10:00		15:00	2	DRILL ACTUAL		95 fph.	•	15-20k,	spp 2150 psi, dp 200 psi, rpm 45 - 55/83,
15:00	0.50	15:30	8	REPAIR RIG			- 45 seconds. CR house.		
15:00		01:00	2	DRILL ACTUAL		· ·		15 201	spp 2150 psi, dp 200 psi, rpm 45 - 55/83,
						70 fph.	-	10-20K,	əpp 2 100 pəi, up 200 pəi, (β(11 40 - 00/83,
01:00	0.50	01:30	/	LUBRICATE RIG		Rig Servi	ce.		
01:00	0.50	01:30	7	LUBRICATE RIG		Rig Servi	ce.		

Su	ndry N	Iumbe	r: 3	7467 API Well	l Numb	er: 4	30135124200	000		
B	Bill B	arret	t Co	rporation						
Time Lo	g									
Start Time 01:30	Dur (hr)	End Time 06:00	Code 2	Category DRILL ACTUAL		Steerable	drlg 3780' - 4006' wok	h 15-20k s	Com spp 2150 psi, dp 200 psi, rpm 45 - 55/83	2 ron
						70 fph.	ung 3780 - 4090 . Wol	D 13-20K, S	spp 2 130 psi, up 200 psi, ipili 43 - 33/65	,, тор
	45 BTR			6:00 - 4/10/2013						
API/UWI 4301351	2420000		State/Provin JT	County Duchesne	Field Nam	e ail Ridge	Well Status COMPLETION	Tota	al Depth (ftKB) Primary Job Type 8,868.0 Drilling & Completion	on
Time Lo					1=101011			L		
Start Time	Dur (hr)	End Time	Code	Category		Ctooroblo	dula 4000! 4444! wok	h 45 00k	Com	
06:00		11:00	2	DRILL ACTUAL		fph.		b 15 - 20K,	rpm 58/83, spp 2250 psi, dp 250 psi, rc	ър 69
11:00		11:30	7	LUBRICATE RIG		_	ce. Check COM.			
11:30		00:30	2	DRILL ACTUAL		Steerable	drlg 4441' - 5294'. wol	b 15k, rpm	58/83, spp 2450 psi, dp 250 psi, rop 66	fph.
00:30		01:30	7	LUBRICATE RIG		_	e. Replace gripper dies			
01:30	4.50	06:00	2	DRILL ACTUAL		Steerable	drlg 5294' - 5548'. wol	b 15k, rpm	51/65, spp 1850 psi, dp 200 psi, rop 56	fph.
-	45 BTR			06:00 - 4/11/20			I.w. n.o.	1= .		
API/UWI 4301351	2420000		State/Provin JT	County Duchesne	Field Nam Black Ta	e ail Ridge	Well Status COMPLETION	Tota	al Depth (ftKB) Primary Job Type 8,868.0 Drilling & Completion	on
Time Lo								•	3, 3, 1, 1	
Start Time 06:00	Dur (hr)	End Time 16:00	Code 2	Category DRILL ACTUAL		Steerable	drla 5548' - 6146' Wo	sh 15-20k	Com rpm 40-55/81, spp 2500 psi, dp 250 psi	ron
00.00	10.00	10.00	2	DRILL ACTUAL		60 fph.	bls mud. Start adding D			ТОР
16:00	0.50	16:30	7	LUBRICATE RIG		Rig Servi	ce.			
16:30	9.50	02:00	2	DRILL ACTUAL		Steerable 60 fph. Lost 60 b	· ·	ob 15-20k,	rpm 40-55/81, spp 2500 psi, dp 250 psi	, rop
02:00	0.50	02:30	7	LUBRICATE RIG		Rig Servi	ce.			
02:30	3.50	06:00	2	DRILL ACTUAL		63 fph.	drlg 6715' - 6937. Wol		rpm 40-55/81, spp 2500 psi, dp 250 psi,	rop
4-5D-	45 BTR	4/11	/2013	06:00 - 4/12/20°	13 06:0					
	2420000		State/Provin JT	County Duchesne	Field Nam Black Ta	e ail Ridge	Well Status COMPLETION	Tota	al Depth (ftKB) Primary Job Type 8,868.0 Drilling & Completic	on .
Time Lo		End Time	0-4-	Cotono					Com	
Start Time 06:00	Dur (hr) 0.50	06:30	Code 2	DRILL ACTUAL		Steerable	drlg 6937' - 6949'. Los	st returns.	Com	
06:30		09:00	5	COND MUD & CIRC			, pump lcm sweeps, by		kers, raise lcm content to 10%. Build vol	ume,
09:00	5.00	14:00	2	DRILL ACTUAL		Steerable			55/68, spp 2250 psi, dp 250 psi, rop 48 past loss zone.	fph.
14:00	0.50	14:30	7	LUBRICATE RIG		Rig Servi	ce. BOP Drill - 55 secon	nds.		
14:30	15.00	05:30	2	DRILL ACTUAL		Steerable	drlg 7189' - 7760'. wob	b 20k, rpm	55/68, spp 2250 psi, dp 250 psi, rop 38	fph.
05:30	0.50	06:00	7	LUBRICATE RIG		Rig Servi	ce.			
4-5D-	45 BTR	4/12	/2013	06:00 - 4/13/20	13 06:0	0				
	2420000		State/Provin JT	County Duchesne	Field Nam Black Ta	e ail Ridge	Well Status COMPLETION	Tota	al Depth (ftKB) Primary Job Type 8,868.0 Drilling & Completic	on
Time Lo		Leur		T 0.1					0	
Start Time 06:00	Dur (hr) 8.00	End Time 14:00	Code 2	DRILL ACTUAL		Steerable	drlg 7760' - 8233'. Wo	ob 22k, rpm	Com n 55/68, spp 2500 psi, dp 250 psi, rop 59	9 fph.
14:00	0.50	14:30	7	LUBRICATE RIG		Rig Servi	ce.			
14:30		03:00	2	DRILL ACTUAL				ob 22k, rpm	n 45-55/68, spp 2350 psi, dp 250 psi, ro	p 38
03:00	0.50	03:30	7	LUBRICATE RIG		Rig Servi	ce.			
03:30	2.50	06:00	2	DRILL ACTUAL		Steerable TD Well (ob 22k, rpm	n 55/68, spp 2200 psi, dp 200 psi, rop 6	4 fph.



420000	S	/2013 tate/Province	1 '	3 06:00 Field Name		Two is as		
			1 '	Field Name	۵.			
		71	Duchesne	Black Ta	ail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,8	Primary Job Type 68.0 Drilling & Completion
	F. IT'	Louis	Octobro		1		2	
Dur (hr)	End Time 07:30	Code 5	Category COND MUD & CIRC		C&C mud	I f/wiper trip. Pump 2 hig	Com h-vis lcm sweeps, circ B	U.
	16:30	6	TRIPS					ole in good shape, took correct
0.00	10.00						t 8050' and 8450', easy w	
2.00	18:30	5	COND MUD & CIRC		C&C hole	f/logs. Circulate out gas	s, had 25' flare on bottom	ns up. Pump pill.
7.50	02:00	6	TRIPS		Toh. LD d	lir tools.		
0.50	02:30	11	WIRELINE LOGS		HSM. RU	loggers.		
2.50	05:00	8	REPAIR RIG					t of fuel and black out. Got rig
4.00	20.00		WIRE IN STREET		•		, top drive.	
						S		
5 BTR	4/14	/2013	06:00 - 4/15/201					
120000						Well Status	Total Depth (ftKB)	Primary Job Type 68.0 Drilling & Completion
+20000		71	Ducheshe	Diack 16	all Riuge	COMPLETION	0,0	Drilling & Completion
Dur (hr)	End Time	Code	Category				Com	
4.00	10:00	11	WIRELINE LOGS		Array, Mic	cro Spherically Focused		
		6	-		,	*		
		9				· · · · · · · · · · · · · · · · · · ·	ILL LINE	
3.00	20:00	5			SHAKER	S & BRING LCM CONT		.D VOLUME BYPASS
		6	_					
			_					
		5						
		6	-			<u> </u>		
1.50	06:00	8	REPAIR RIG		_		MOTOR ON PRAGMA -	WAITING ON LAYDOWN
5 BTR								
420000				I				Primary Job Type 68.0 Drilling & Completion
		-		-10.011				
Dur (hr)	End Time	Code	Category				Com	
			_				K (PRAGMA BROKE DO	OWN)
		ľ						
			-			, ,	;s 	
			-		_		ACE OTABTEED MOTO	D ON DDA OMA
				_				
				I	CENTRAI	LIZERS & 3 MARKER J		
0.50	06:00	5	COND MUD & CIRC		CIRC - R/	D CSG CREW		
5 BTR						Iwall Ctatus	Takel Dank (MICD)	Drivers, Joh Time
420000			Duchesne	I		COMPLETION		Primary Job Type 68.0 Drilling & Completion
	•		•	1			•	
Dur (hr)	End Time	Code	CATEGORY COND MUD & CIRC		CIPC B/L	I WHII E DIGGING LID (Com	
				т				BLS SLIDED FLUSH 10
				'	BBLS WA 10.61, 16. GAL/SK, CLAYWE & HOLD I DURING	ATER, 297 BBLS 720 SK 2 BBLS 635 SKS 13.5 F SHUT DOWN WASH LI B WATER LAND PLUG FOR 2 MIN - RELEASE JOB - 73 BBLS CEMEN	(S 11 PPG 2.32 YIELD L PPG 1.43 YIELD TAIL CE NES & DROP PLUG, DI @ 1666 PSI TAKE PRE PRESSURE FLOATS H	LEAD CEMENT MIXED @ EMENT MIXED @ 6.65 SPLACE WITH 204 BBLS ESSURE 500 PSI OVER FCP ELD - FULL RETURNS
		14	NIPPLE DOWN B.O.P					
1.00	15:00	21	OPEN		ISET CSG	SLIPS @ 180K - CUT	OFF CSG	
4 4 4	0.50 2.50 1.00 5 BTR 4.000 0.50 4.50 3.00 0.50 4.50 1.00 4.00 0.50 1.50 5 BTR 420000 0.50 0.50 1.50 5 BTR 420000 0.50 0.50 0.50 0.50 0.50 0.50 1.00 0.50 4.00 0.50 0.50 0.50 0.50 0.50 0	Dur (hr)	0.50 02:30 11 2.50 05:00 8 1.00 06:00 11 1 1 1 1 1 1 1 1	0.50	0.50 02:30 11 WIRELINE LOGS 2.50 05:00 8 REPAIR RIG 1.00 06:00 11 WIRELINE LOGS 5 BTR 4/14/2013 06:00 - 4/15/2013 06:00 12:0000 State/Province County Duchesne Black Triving Duchesne Black Triving County County	0.50 02:30 11	0.50 02:30 11 WIRELINE LOGS HSM. RU loggers.	1.00



Time Log	g											
Start Time	Dur (hr)	End Time	Code		Category				Com			
15:00	7.00	22:00	21	OPEN			CLEAN IV	IUD TANKS - RIGGIN	G WITH CREWS - RI	G RELEA	ASED @ 2200 HRS	
4-5D-	45 BTR	4/22	/2013	06:00	- 4/23/2013	06:00						
API/UWI		S	state/Province	е	County	Field Name		Well Status	Total Depth (ftKB)		Primary Job Type	
4301351	2420000	l	JT		Duchesne	Black Ta	il Ridge	COMPLETION		8,868.0	Drilling & Completion	
Time La	~											

Time Lo	g				
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Construction Crew Working On Facilities.
10:00	2.00	12:00	IWHD	Install Wellhead	Safety Meeting With Cameron, Check Surface Casing & 5.5" For Pressure, 0 Psi On Both Sides.N/D 11" Night Cap, Cleaned And Dressed Up 5.5" Csg Top, Set And N/U 11" x 7 1/16" 5k Tbg. Head With 2 1/16' x 5k Gate Valves. Tested Hanger Seals To 7100 Psi, Good Test. Secured Well Head With 7" 5K Night Cap.
12:00	18.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Construction Crew Working On Facilities.

4-5D-45 BTR 4/23/2013 06:00 - 4/24/2013 06:00)
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API/UWI			State/Provinc	e	County	Field Name)	Well Status	Total De	epth (ftKB)	Primary Job Type
43013512	2420000	l	JT		Duchesne	Black Ta	il Ridge	COMPLETION		8,868.0	Drilling & Completion
Time Log											
Start Time	Dur (hr)	End Time	Code		Category				Co	om	
06:00	2.00	08:00	LOCL	Lock We	Ilhead & Secure		WSI Shut	In And Secured.			
08:00	1.50	09:30	SRIG	Rig Up/D	own		MIRU SL Logging 1		pment. Hold Sa	afety Meeting. R	ig Up Gauge Ring And
09:30	5.50	15:00	LOGG	Logging			8,767', 30 Spectral I 8,737 - 8, Fair, 4,80)' Of Fill. POOH, P/U (Density/ Dual Spaced	CBL Tool, Rih Theutron Dated nowed Good B 2,720'. Found	To PBTD, 8,737' I 04-14-2013. Ru Bond From TD To Short Joints At 8	in Repeat Section From 5,400, 5,400 - 4,800' ,280 - 8,302, 7,688 -
15:00	15.00	06:00	LOCL	Lock We	Ilhead & Secure		WSI And	Secured			

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	STATE OF UTAH		FORM 9
ı	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI		5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626261
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
	posals to drill new wells, significantly reenter plugged wells, or to drill horizen n for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 4-5D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013512420000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300	, Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0755 FNL 1292 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNW Section:	HIP, RANGE, MERIDIAN: 05 Township: 04.0S Range: 05.0W Mo	eridian: U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICA	ATE NATURE OF NOTICE, REPOI	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
7.pproximus data noin nim statu	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
5/21/2013	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	✓ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
Report Date:		SI TA STATUS EXTENSION	
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
This well received	completed operations. Clearly show d first production on 5/21/2 2013 and first oil sales on	013, first gas sales on	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 28, 2013
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUM 303 312-8172	BER TITLE Senior Permit Analyst	
SIGNATURE		DATE	
N/A		5/28/2013	

RECEIVED: May. 28, 2013

	STATE OF UTAH		FORM 9
ι	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ		5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626261
SUNDR	Y NOTICES AND REPORTS O	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
	posals to drill new wells, significantly de eenter plugged wells, or to drill horizonta for such proposals.		7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: 4-5D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP			9. API NUMBER: 43013512420000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300		HONE NUMBER: 3 312-8134 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0755 FNL 1292 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNW Section:	IIP, RANGE, MERIDIAN: 05 Township: 04.0S Range: 05.0W Merid	ian: U	STATE: UTAH
11. CHEC	CAPPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
5/31/2013	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all	pertinent details including dates, d	lenths, volumes, etc.
	the May 2013 Drilling Activit		Accepted by the Utah Division of Oil, Gas and Mining
			FOR RECORD ONLY
			June 06, 2013
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	R TITLE Permit Analyst	
SIGNATURE N/A		DATE 6/5/2013	



API/UWI		Is	tate/Provinc	e County	Field Nam	e	Well Status	Total Depth (ftKB)	Primary Job Type
4301351	2420000	įί	JT	Duchesno	e Black T	ail Ridge	PRODUCING		3,868.0 Drilling & Completion
Time Lo	g			•	·				
Start Time	Dur (hr)	End Time	Code		egory			Com	
06:00	24.00	06:00	GOP	General Operation		FB TANK FB EQUI	FRAC LINE.		
_	45 BTR			06:00 - 5/17					
API/UWI	10.400000	_	tate/Provinc		Field Nam		Well Status	Total Depth (ftKB)	Primary Job Type
	2420000		JT	Duchesne	e Black I	ail Ridge	PRODUCING		3,868.0 Drilling & Completion
Time Lo									
Start Time	Dur (hr)	End Time	GOP	Care and Operation		ICA CUI	FOR DDECOUDE AID	Com	AC MANDREL. 5" 10K FRAC
06:00	24.00	06:00		General Operation		VALVES FILLING			ES, AND FB EQUIP. CONT
_	45 BTR			06:00 - 5/18					
API/UWI	10400000		tate/Provinc		Field Nam		Well Status	Total Depth (ftKB)	Primary Job Type
	2420000		JT	Duchesne	e Black i	ail Ridge	PRODUCING		3,868.0 Drilling & Completion
Time Lo		Leathan	0.4.	0-4-				0	
06:00	Dur (hr) 24.00	End Time 06:00	GOP	Cate General Operation	0 ,	EINIIQU E	ILLING FRAC LINE. H	Com EAT EDAC LINE	
				<u>'</u>			ILLING I IVAC LINE. II	LATTINAC LINE.	
	45 BTR			06:00 - 5/19					
API/UWI	0.400000		tate/Provinc	1 1	Field Nam		Well Status	Total Depth (ftKB)	Primary Job Type
	2420000	(JT	Duchesno	e Black i	ail Ridge	PRODUCING		3,868.0 Drilling & Completion
			Code	1				Com	
			Loue					Com	
Start Time	Dur (hr)	End Time	СТРІ		egory	CREW T	RAV/FI		
Start Time 06:00	1.00	07:00	CTRL	Crew Travel	egory	CREW T			
Start Time 06:00 07:00	1.00	07:00 08:00	SRIG	Crew Travel Rig Up/Down	egory	HSM. MI	RU SLB WITH 5K LUB		
Start Time 06:00 07:00	1.00	07:00	_	Crew Travel	ggory	HSM. MI PU GUN AND PEI	RU SLB WITH 5K LUB S FOR STG 1. RIH AN	D CORRELATE TO SJ CR-5 FORM 8405'-866	AT 8280'-8302'. RUN DOWN 8' WITH 39 HOLES IN 13' NET IN.
Start Time 06:00 07:00 08:00	1.00 1.00 1.00	07:00 08:00	SRIG	Crew Travel Rig Up/Down	igory	HSM. MI PU GUN AND PER POOH A	RU SLB WITH 5K LUB S FOR STG 1. RIH AN RF CR-4, CR-4A, AND	D CORRELATE TO SJ CR-5 FORM 8405'-866	8' WITH 39 HOLES IN 13' NET
Start Time 06:00 07:00 08:00	1.00 1.00 1.00	07:00 08:00 09:00	SRIG PFRT	Crew Travel Rig Up/Down Perforating		HSM. MI PU GUN AND PER POOH A	RU SLB WITH 5K LUB S FOR STG 1. RIH AN RF CR-4, CR-4A, AND ND VERIFY ALL GUNS	D CORRELATE TO SJ CR-5 FORM 8405'-866	8' WITH 39 HOLES IN 13' NET
Start Time 06:00 07:00 08:00 09:00 15:00	1.00 1.00 1.00	07:00 08:00 09:00 15:00 06:00	SRIG PFRT SRIG LOCL	Crew Travel Rig Up/Down Perforating Rig Up/Down	Secure	HSM. MI PU GUN AND PEI POOH A MIRU HE WELL SI	RU SLB WITH 5K LUB S FOR STG 1. RIH AN RF CR-4, CR-4A, AND ND VERIFY ALL GUNS S FRAC FLEET.	D CORRELATE TO SJ CR-5 FORM 8405'-866	8' WITH 39 HOLES IN 13' NET
Start Time 06:00 07:00 08:00 09:00 15:00 4-5D-	1.00 1.00 1.00 6.00 15.00	07:00 08:00 09:00 15:00 06:00	SRIG PFRT SRIG LOCL	Crew Travel Rig Up/Down Perforating Rig Up/Down Lock Wellhead & 06:00 - 5/20	Secure 0/2013 06:00 Field Nam	HSM. MI PU GUN AND PEI POOH A MIRU HE WELL SI	RU SLB WITH 5K LUB S FOR STG 1. RIH AN RF CR-4, CR-4A, AND ND VERIFY ALL GUNS S FRAC FLEET.	D CORRELATE TO SJ CR-5 FORM 8405'-866 S SHOT. SHUT WELL	8' WITH 39 HOLES IN 13' NET IN.
Start Time 06:00 07:00 08:00 09:00 15:00 4-5D- API/UWI 430135	1.00 1.00 1.00 6.00 15.00 45 BTR	07:00 08:00 09:00 15:00 06:00	SRIG PFRT SRIG LOCL 2013 tate/Province	Crew Travel Rig Up/Down Perforating Rig Up/Down Lock Wellhead & 06:00 - 5/20	Secure 0/2013 06:00 Field Nam	HSM. MI PU GUN AND PEI POOH A MIRU HE WELL SI	RU SLB WITH 5K LUB S FOR STG 1. RIH AN RF CR-4, CR-4A, AND ND VERIFY ALL GUNS S FRAC FLEET. HUT IN AND SECURE. Well Status	D CORRELATE TO SJ CR-5 FORM 8405'-866 S SHOT. SHUT WELL	8' WITH 39 HOLES IN 13' NET IN.
API/UWI	1.00 1.00 1.00 6.00 15.00 45 BTR	07:00 08:00 09:00 15:00 06:00	SRIG PFRT SRIG LOCL 2013 tate/Province	Crew Travel Rig Up/Down Perforating Rig Up/Down Lock Wellhead & 06:00 - 5/20 County Duchesno	Secure 0/2013 06:00 Field Nam	HSM. MI PU GUN AND PEI POOH A MIRU HE WELL SI	RU SLB WITH 5K LUB S FOR STG 1. RIH AN RF CR-4, CR-4A, AND ND VERIFY ALL GUNS S FRAC FLEET. HUT IN AND SECURE. Well Status	D CORRELATE TO SJ CR-5 FORM 8405'-866 S SHOT. SHUT WELL	8' WITH 39 HOLES IN 13' NET IN.

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Time Log	Dur (hr)	End Time	Code	Category	Com
6:00		06:00	FRAC	Frac. Job	FRAC STG #1- CR-4, CR-4A, AND CR-5 PERFS 8405'-8668' 39 HOLES IN 13' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 570 PSI AT 04:41 BREAK DOWN 3961 PSI AT 9:5 BPM. PMP 3900 GAL 15% HCL ACID W/ 78 BIO BALLS FOR DIVERSION. 10.4 BPM AT 2703 PSI. FLUSH W/ 8206 GAL. 30.5 BPM AT 3422 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.4 BPM AT 4800 PSI. ISDP 2553. FG .74. PERFS OPEN 30/39. CONT FR PAD. 70.1 BPM AT 4400 PSI. (34/39 P/O) STAGE HYBOR PAD 70.5 BPM AT 4545 PSI. STAGE TO 2 PPA 20/40 WHITE. 70.0 BPM AT 4778 PSI. ON PERFS 70.2 BPM AT 4457 PSI. STAGE TO 3 PPA 20/40 WHITE. 70.0 BPM AT 4096 PSI. ON PERFS 70.2 BPM AT 3869 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 70.3 BPM AT 3735 PSI. ON PERFS 70.3 BPM AT 3650 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.2 BPM AT 3670 PSI. ON PERFS 70.2 BPM AT 3662 PSI. FLUSH 70.8 BPM AT 4045 PSI. WSI WITH 2651 PSI. TURN OVER TO WIRELINE. ISIP 2697 FG .75 MAX RATE 70.5 BPM MAX PRES 4788 PSI AVE RATE 70.2 BPM AVE PRES 3953 PSI PMP 150,000 LBS 20/40 WHITE. 20# HYBOR G (16) 62,095 GAL CLEAN FLUID 132,109 GAL BWTR 3145 BBLS
6:00	1.09	07:05	PFRT	Perforating	PERF STG #2- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 2 INTO LUB AND EQUALIZE 2550 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 8280'-8302'. RUN DOWN AND SET CBP AT 8394' WITH 2450 PSI. PULL UP AND PERF CR-3 AN CR-4 FORM 8147'-8374' WITH 36 HOLES IN 12' NET. POOH AND VERIFY ALL GUNSHOT. TURN WELL OVER TO HES WITH 2400 PSI.
07:05	1.25	08:20	FRAC	Frac. Job	FRAC STG #2- CR-3, AND CR-4 PERFS 8147'-8374' 36 HOLES IN 12' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 2378 PSI AT 07:15 BREAK DOWN 2980 PSI AT 9.8 BPM. PMP 3600 GAL 15% HCL ACID W/ 72 BIO BALLS FOR DIVERSION. 10.1 BPM AT 2810 PSI. FLUSH W/ 7955 GAL. 30.0 BPM AT 3525 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.4 BPM AT 4818 PSI. ISDP 2516. FG .74. PERFS OPEN 29/36. CONT FR PAD. 70.4 BPM AT 4710 PSI. STAGE HYBOR PAD 70.0 BPM AT 4818 PSI. ON PERFS 70.2 BPM AT 4052 PSI. STAGE TO 2 PPA 20/40 WHITE. 70.1 BPM AT 4778 PSI. ON PERFS 70.3 BPM AT 3814 PSI. ON 3# HAD A PUMP DOWN SHIFT (NOT SURE WHY) BRING RATE BACK UP THEN NET PRESSURES STARTED CLIMBING FAST. EXTENDED 3# THEN WENT TO FLUSH. FLUSH 70.9 BPM AT 4346 PSI. WSI WITH 2655 PSI. TURN OVER TO WIRELINE. ISIP 2663 MAX RATE 70.5 BPM MAX PRES 4823 PSI AVE RATE 70.0 BPM AVE PRES 4068 PSI PMP 95,900 LBS 20/40 WHITE. 250 LBS SCALE SORB 3 SLK WTR 65,449 GAL 20# HYBOR G (16) 49,163 GAL CLEAN FLUID 118,146 GAL BWTR 2813 BBLS
8:20	1.25	09:35	PFRT	Perforating	PERF STG #3- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 3 INTO LUB AND EQUALIZE 2550 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7687'-7710'. RUN DOWN AND SET CBP AT 8138' WITH 2400 PSI. PULL UP AND PERF CR-2 AN CR-3 FORM 7887'-8118' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUN SHOT. TURN WELL OVER TO HES WITH 2400 PSI.

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Time Log Start Time	Dur (hr)	End Time	Code	Category	Com
9:35	1.25	10:50	FRAC	Frac. Job	FRAC STG #3- CR-2 AND CR-3 PERFS 7887'-8118' 45 HOLES IN 15' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 2332 PSI AT 09:40 BREAK DOWN 2960 PSI AT 9.9 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.4 BPM AT 2553 PSI. FLUSH W/ 7724 GAL. 30.1 BPM AT 3311 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.4 BPM AT 4524 PSI. ISDP 2449. FG .74. PERFS OPEN 31/45. CONT FR PAD. 70.3 BPM AT 4305 PSI. STAGE HYBOR PAD 70.0 BPM AT 4416 PSI. STAGE TO 2 PPA 20/40 WHITE. 70.0 BPM AT 4437 PSI. ON PERFS 70.1 BPM AT 4060 PSI. STAGE TO 3 PPA 20/40 WHITE. 70.2 BPM AT 3946 PSI. ON PERFS 70.2 BPM AT 3791 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 70.1 BPM AT 3725 PSI. ON PERFS 70.2 BPM AT 3645 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.2 BPM AT 3639 PSI. ON PERFS 70.2 BPM AT 3583 PSI. FLUSH 70.6 BPM AT 4075 PSI. WSI WITH 2750 PSI. TURN OVER TO WIRELINE. ISIP 2753 FG .78 MAX RATE 70.4 BPM AMAX PRES 44444 PSI AVE RATE 70.2 BPM AMAX PRES 44444 PSI AVE RATE 70.2 BPM AVE PRES 3840 PSI PMP 149,900 LBS 20/40 WHITE. 250 LBS SCALE SORB 3 SLK WTR 65,045 GAL 20# HYBOR G (16) 62,115 GAL CLEAN FLUID 131.072 GAL BWTR 3121 BBLS
0:50	1.16	12:00	PFRT	Perforating	PERF STG #4- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 4 INTO LUB AND EQUALIZE 2550 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7687'-7710'. RUN DOWN AND SET CBP AT 7868' WITH 2400 PSI. PULL UP AND PERF WASATCH AND CR-2 FORM 7625'-7848' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO HES WITH 1150 PSI.
2:00	1.34	13:20	FRAC	Frac. Job	FRAC STG #4- WASATCH AND CR-2 PERFS 7625'-7848' 45 HOLES IN 15' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 893 PSI AT 12:10 BREAK DOWN 2264 PSI AT 9.7 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.3 BPM AT 2182 PSI. FLUSH W/ 7445 GAL. 30.2 BPM AT 2981 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.4 BPM AT 3910 PSI. ISDP 1891. FG .68. PERFS OPEN 31/45. CONT FR PAD. 70.4 BPM AT 3613 PSI. (35/45 P/O) STAGE HYBOR PAD 70.0 BPM AT 3630 PSI. STAGE TO 2 PPA 20/40 WHITE. 69.8 BPM AT 3652 PSI. ON PERFS 70.1 BPM AT 3331 PSI. STAGE TO 3 PPA 20/40 WHITE. 70.1 BPM AT 3237 PSI. ON PERFS 70.2 BPM AT 3054 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 70.0 BPM AT 3004 PSI. ON PERFS 70.1 BPM AT 2956 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.1 BPM AT 2951 PSI. ON PERFS 70.1 BPM AT 2905 PSI. FLUSH 70.1 BPM AT 3501 PSI. WSI WITH 2250 PSI. TURN OVER TO WIRELINE. ISIP 2244 FG. 73 MAX RATE 70.5 BPM MAX PRES 3680 PSI AVE RATE 70.1 BPM AT 2096 PSI. STAGE TO 1 BPM AT 2505 PSI. DEPRES 3108 PSI PMP 149,900 LBS 20/40 WHITE. 250 LBS SCALE SORB 3 SLK WTR 60,830 GAL 20# HYBOR G (16) 62,111 GAL CLEAN FLUID 126,879 GAL BWTR 3021 BBLS
3:20	1.25	14:35	PFRT	Perforating	PERF STG #5- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 5 INTO LUB AND EQUALIZE 2000 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6314'-6335'. RUN DOWN AND SET CBP AT 7620' WITH 1700 PSI. PULL UP AND PERF CR-1 FORM 7377'-7601' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO HES WITH 1600 PSI.

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Time Lo	g				
Start Time	Dur (hr)	End Time	Code	Category	Com
14:35	1.41	16:00	FRAC	Frac. Job	FRAC STG #5- CR-1 PERFS 7377'-7601' 45 HOLES IN 15' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 1360 PSI AT 14:40 BREAK DOWN 1825 PSI AT 9.8 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.4 BPM AT 1739 PSI. FLUSH W/ 7202 GAL. 30.4 BPM AT 2389 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.6 BPM AT 3359 PSI. ISDP 1858. FG .69. PERFS OPEN 39/45. CONT FR PAD. 70.4 BPM AT 3345 PSI. STAGE TO .75 PPA 100 MESH. 70.1 BPM AT 3280 PSI. ON PERFS 70.2 AT 3330 PSI. STAGE TO 1 PPA 20/40 WHITE. 70.1 BPM AT 3356 PSI. ON PERFS 70.0 BPM AT 3220 PSI. STAGE TO 2 PPA 20/40 WHITE. 70.1 BPM AT 3149 PSI. ON PERFS 70.1 BPM AT 3005 PSI. STAGE TO 3 PPA 20/40 WHITE. 70.2 BPM AT 2950 PSI. ON PERFS 70.3 BPM AT 2850 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 70.1 BPM AT 2853 PSI. ON PERFS 70.2 BPM AT 2812 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.1 BPM AT 2853 PSI. ON PERFS 70.2 BPM AT 2812 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.1 BPM AT 2829 PSI. ON PERFS 70.2 BPM AT 2812 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.1 BPM AT 2829 PSI. ON PERFS 70.2 BPM AT 2812 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.1 BPM AT 2829 PSI. ON PERFS 70.2 BPM AT 2812 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.1 BPM AT 2829 PSI. ON PERFS 70.2 BPM AT 2812 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.1 BPM AT 2829 PSI. ON PERFS 70.2 BPM AT 2812 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.1 BPM AT 2829 PSI. ON PERFS 70.2 BPM AT 2812 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.1 BPM AT 2829 PSI. ON PERFS 70.2 BPM AT 2812 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.1 BPM AT 2829 PSI. ON PERFS 70.2 BPM AT 2812 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 70.1 BPM AT 2829 PSI. ON PERFS 70.2 BPM AT 2812 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 70.1 BPM AT 2853 PSI. ON PERFS 70.2 BPM AT 2812 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 70.1 BPM AT 2853 PSI. ON PERFS 70.2 BPM AT 2812 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 70.1 BPM AT 2850 PSI. ON PERFS 70.3 BPM AT 2850 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.1 BPM AT 2850 PSI. ON PERFS 70.3 BPM AT 2850 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.1
16:00	1.25	17:15	PFRT	Perforating	PERF STG #6- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 6 INTO LUB AND EQUALIZE 2000 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6314'-6335'. RUN DOWN AND SET CBP AT 7320' WITH 1800 PSI. PULL UP AND PERF CASTLE PEAK FORM 7112'-7349' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT WELL IN WITH 1350 PSI.
17:15	12.75	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.
4-5D-	45 BTR	5/20/	2013	06:00 - 5/21/2013 06:0	0

State/Province

County Duchesne

API/UWI 43013512420000

Time Log									
Start Time	Dur (hr)	End Time	Code	Category	Com				
06:00		06:00	SMTG	1 5	HES AOL AT 05:30. START EQUIP. PRIME UP CHEMS AND PUMPS. RUN QC ON FLUID. HSM- PARKING, HIGH PRESSURE, REDZONE, SMOKING.				

Field Name

Black Tail Ridge

Well Status PRODUCING

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RECEIVED: Jun. 05, 2013

Primary Job Type 8,868.0 Drilling & Completion

Total Depth (ftKB)

Bill Barrett Corporation

	End Time	Code	Category	Com
ime Log art Time Dur (hr) 5:00 1.3	End Time 34 07:20	FRAC	Frac. Job	FRAC STG #6- CASTLE PEAK PERFS 7112'-7349' 45 HOLES IN 15' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 933 PSI AT 06:05 BREAK DOWN 2575 PSI AT 9.5 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.4 BPM AT 1880 PSI. FLUSH W/ 6944 GAL. 30.1 BPM AT 2651 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.4 BPM AT 3295 PSI. ISDP 1802. FG .69. PERFS OPEN 39/45. CONT FR PAD. 70.4 BPM AT 3173 PSI. STAGE TO .75 PPA 100 MESH. 70.3 BPM AT 3170 PSI. ON PERFS 70.2 AT 3245 PSI. STAGE TO 1 PPA 20/40 WHITE. 70.1 BPM AT 3257 PSI. ON PERFS 70.1 BPM AT 3148 PSI. STAGE TO 2 PPA 20/40 WHITE. 70.1 BPM AT 3098 PSI. ON PERFS 70.1 BPM AT 2905 PSI. STAGE TO 3 PPA 20/40 WHITE. 70.1 BPM AT 2884 PSI. ON PERFS 70.1 BPM AT 2759 PSI. STAGE TO 3 PPA 20/40 WHITE. 70.1 BPM AT 2824 PSI. ON PERFS 70.0 BPM AT 2822 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.1 BPM AT 2824 PSI. ON PERFS 70.0 BPM AT 2821 PSI. STAGE TO 5 PPA 20/40 WHITE. 70.1 BPM AT 2824 PSI. ON PERFS 70.0 BPM AT 2821 PSI. STAGE TO 5 PPA 20/40 WHITE. 70.1 BPM AT 2824 PSI. ON PERFS 70.0 BPM AT 2821 PSI. STAGE TO 5 PPA 20/40 WHITE. 70.1 BPM AT 2824 PSI. ON PERFS 70.0 BPM AT 2821 PSI. STAGE TO 5 PPA 20/40 WHITE. 70.1 BPM AT 2824 PSI. ON PERFS 70.0 BPM AT 2821 PSI. STAGE TO 5 PPA 20/40 WHITE. 70.1 BPM AT 2824 PSI. ON PERFS 70.0 BPM AT 2821 PSI. STAGE TO 5 BPM AT 3504 PSI. WSI WITH 1950 PSI. TURN OVER TO WIRELINE. ISIP 1985 FG. 71 MAX RATE 70.5 BPM MAX PRES 2287 PSI AVE RATE 70.1 BPM AVE PRES 2974 PSI AVE RATE 70.1 BPM AVE PRES 2974 PSI AVE RATE 70.1 BPM AVE PRES 20740 WHITE. TOTAL PROP 174,600 LBS
7:20 1.·	7 08:30	PFRT	Perforating	SLK WTR 66,655 GAL CLEAN FLUID 148,701 GAL 20# HYBOR G (16) 78,133 GAL BWTR 3541 BBLS PERF STG #7- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 7 INTO LUB AND EQUALIZE 1700 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6314'-6335'. RUN DOWN AND SET CBP AT 7100' WITH 1550 PSI. PULL UP AND PERF BLACK SHALE FORM 6791'-7080' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN OVER TO HES WITH 1350 PSI.
3:30 1.2	25 09:45	FRAC	Frac. Job	FRAC STG #7- BLACK SHALE PERFS 6791'-7080' 45 HOLES IN 15' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 1321 PSI AT 08:36 BREAK DOWN 1968 PSI AT 9.8 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.3 BPM AT 1721 PSI. FLUSH W/ 6631 GAL. 30.2 BPM AT 2125 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.6 BPM AT 3567 PSI. ISDP 1571. FG .66. PERFS OPEN 31/45. CONT FR PAD. 70.4 BPM AT 3333 PSI. (34/45 P/O) STAGE TO .75 PPA 100 MESH. 70.2 BPM AT 3174 PSI. ON PERFS 70.3 AT 3250 PSI. STAGE TO 1 PPA 20/40 WHITE. 70.2 BPM AT 3329 PSI. ON PERFS 70.1 BPM AT 3205 PSI. STAGE TO 2 PPA 20/40 WHITE. 70.1 BPM AT 3155 PSI. ON PERFS 70.1 BPM AT 3025 PSI. STAGE TO 3 PPA 20/40 WHITE. 70.1 BPM AT 2885 PSI. ON PERFS 70.2 BPM AT 2782 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 70.1 BPM AT 2713 PSI. ON PERFS 70.3 BPM AT 2782 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.1 BPM AT 2713 PSI. ON PERFS 70.3 BPM AT 2782 PSI. STAGE TO 2 PPA 20/40 WHITE. 70.2 BPM AT 2620 PSI. ON PERFS 70.3 BPM AT 2807 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.2 BPM AT 2620 PSI. ON PERFS 70.3 BPM AT 2807 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.2 BPM AT 2620 PSI. ON PERFS 70.3 BPM AT 2807 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.2 BPM AT 2620 PSI. ON PERFS 70.3 BPM AT 2807 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.2 BPM AT 2620 PSI. ON PERFS 70.3 BPM AT 2807 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.2 BPM AT 2620 PSI. ON PERFS 70.3 BPM AT 2807 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.2 BPM AT 2620 PSI. ON PERFS 70.3 BPM AT 2807 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.2 BPM AT 2620 PSI. ON PERFS 70.3 BPM AT 2807 PSI. STAGE TO 9 BPM AT 3242 PSI. WSI WITH 1887 PSI. TURN OVER TO WIRELINE. ISIP 1914 MAX RATE 70.4 BPM AVE PRES 2954 PSI PMP 13,460 LBS 100 MESH TOTAL PROP 153,760 LBS SLK WTR 59,668 GAL CLEAN FLUID 131.570 GAL BWTR 3133 BBLS

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Time Lo	g				
Start Time	Dur (hr)	End Time	Code	Category	Com
09:45	1.24	11:00	WLWK		PU 5-1/2" EXELIS PLUG AND SETTING TOOLS. EQUALIZE PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6314'-6335'. SET KILL PLUG AT 6740' W/ PSI. BLEED OFF WELL AS POOH. SHUT IN AND SECURE WELL.
11:00	3.00	14:00	SRIG	Rig Up/Down	RDMO HES AND SLB.
14:00	16.00	06:00	GOP	General Operations	WELL SHUT IN AND SECURE. SPOT TANK FOR RIG. STACK WTR. MOVE TANKS TO 5-16D-45.

4-5D-45 BTR 5/21/2013 06:00 - 5/22/201	113 (06:00
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API/UWI 4301351	2420000	-	tate/Provinc	e County Duchesne	Field Name Black Ta		Well Status PRODUCING	Total Depth (ftKB) Primary Job Type 8,868.0 Drilling & Completion
Time Lo		Į	, i	Ducheshe	Diack 16	all relage	I RODOGINO	0,000.0 Brilling & Completion
Start Time	Dur (hr)	End Time	Code	Category				Com
06:00	1.00	07:00	CTRL	Crew Travel		CREW T	RAVEL. HOLD SAFE	Y MEETING.
07:00	1.00	08:00	SRIG	Rig Up/Down		MIRU RI	G & EQUIPMENT.	
08:00	3.00	11:00	BOPI	Install BOP's		-		J BOP & HYDRILL. R/U FLOOR & EQUIPMENT. SPOT AD 286 JTS ON RACKS & TALLY TBG.
11:00	3.50	14:30	RUTB	Run Tubing			BIT, POBS, 1 JT 2-7 JG @ 6740'	8 TBG & 2.31 XN- NIPPLE. RIH P/U 2-7/8 L-80 TBG TO
14:30	3.50	18:00	DOPG	Drill Out Plugs		HELD. D/O KILL SWIVEL 28/64 CH SWIVEL 28/64 CH SWIVEL 28/64 CH	PLUG @ 6740'. FCP IN HOLE. TAG SAND IOKE. IN HOLE. TAG SAND IOKE. IN HOLE. TAG SAND	CIRC. TEST CIRC EQUIPMENT & BOPE TO 2500 PSI, 700 ON 32/64 CHOKE. @ 7081'. C/O SAND & D/O CBP @ 7100'. FCP- 750 ON @ 7290'. C/O SAND & D/O CBP @ 7369'. FCP- 600 ON @ 7593'. C/O SAND & D/O CBP @ 7620'. FCP- 600 ON EAN. R/D SWIVEL. SDFN. TURN WELL OVER TO
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	9	CREW T	RAVEL WELL SECUR	RE.

4-5D-45 BTR 5/22/2013 06:00 - 5/23/2013 06:00

AI I/OVVI		Otate/1 Toville	County	I ICIU INAITIC	Well Olalus	Total Deptil (ItiND)	i ililialy sob Type	
430135124	20000	UT	Duchesne	Black Tail Ridge	PRODUCING	8,868.0	Drilling & Completion	
Time Log								
Start Time	Dur (hr) End 7	Time Code	Category			Com		

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	4.00	11:00	DOPG	Drill Out Plugs	FCP- 550 ON 24/64 CHOKE. SWIVEL IN HOLE, TAG SAND @ 7723'. BREAK CIRC. C/O SAND & D/O CBP @ 7868'. FCP- 650 0N 28/64 CHOKE.
					SWIVEL IN HOLE. TAG SAND @ 8122'. C/O SAND & D/O CBP @ 8138'. FCP- 650 0N 30/64 CHOKE.
					SWIVEL IN HOLE. TAG SAND @ 8381'. C/O SAND & D/O CBP @ 8394'. FCP- 800 0N 30/64 CHOKE.
					SWIVEL IN HOLE, TAG SAND @ 8674'. C/O TO FLOAT COLLAR @ 8767'. D/O F/C. D/O CMT TO 8836' PBTD. JT 277 ALL THE WAY IN. CIRC WELL CLEAN. PUMPED 350 BBLS TOTAL. R/D SWIVEL
11:00	1.00	12:00	PULT	Pull Tubing	PULL ABOVE PERFS L/D 2-7/8 TBG TO 6712' & LAND TBG. 210 JTS TOTAL IN HOLE.
12:00	1.50	13:30	IWHD	Install Wellhead	R/D FLOOR. N/D BOPE. N/U WELLHEAD. DROP BALL DOWN TBG & PUMPED BIT OFF. R/U TO SALES LINE. TURN OVER TO FLOW BACK.
13:30	2.00	15:30	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. SDFN.
15:30	14.50	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. TBG FLOWING TO SALES.

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Form 3160-4 (August 2007)

UNITED STATES

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

	WELL (COMPL	ETION C	RR	CO	MPLE	TION I	REPO	RT	AND L	.OG			ase Serial N 420H6262		
1a. Type of	Well 🛛	Oil Well	☐ Gas V	Well	_ I	Ory [Other						6. If	Indian, Allo	ottee or	Tribe Name
b. Type of	Completion	⊠ N	lew Well	□ Wo	ork Ov	er 🗀] Deeper		Plug	Back	☐ Diff. I	Resvr.	7 11	ait or CA A	araama	ent Name and No.
		Oth	er										7. 01	iii or CA A	greeme	ent Name and No.
2. Name of BILL BA	Operator ARRETT CO	DRPORA	TION E	-Mail:	chirtle		: CHRIS		IIRT	LER				ease Name a -5D-45 BT		ll No.
3. Address	3. Address 1099 18TH STREET SUITE 2300											43-013-51242				
4. Location	. Location of Well (Report location clearly and in accordance with Federal requirements)* 10. Field and Pool, or Exploratory ALTAMONT															
	At surface NWNW 755FNL 1292FWL At top prod interval reported below NWNW 792FNL 829FWL 11. Sec., T., R., M., or Block and Survey or Area Sec 5 T4S R5W Mer UBM												Block and Survey S R5W Mer UBM			
		•			21 142	0201 **	_							County or Pa		13. State
At total 14. Date Sp		NVV 633	FNL 809FW	ate T.D	Reac	hed		16 1	Date	Complete	ad.			UCHESNE		UT B, RT, GL)*
01/31/2	013			/13/20		ned			D & .	A 🛮 🔼 1/2013	Ready to l	Prod.	1/. 1	578	32 GL	, K1, GL)
18. Total D	epth:	MD TVD	8885 8843		19.	Plug Ba	ck T.D.:	MI TV		87 87		20. Dej	pth Brid	ige Plug Se	t: I	MD FVD
21. Type E GR,CB	lectric & Oth L,MUD	er Mecha	nical Logs R	un (Sul	omit co	opy of ea	ich)				Was	well core DST run?	2	🗖 No 🛚 i	TYes	(Submit analysis) (Submit analysis)
2 G :	11. D	1 /D	. 11		11)						Dire	ctional Su	rvey?	□ No	Yes	(Submit analysis)
23. Casing ar	Id Liner Reco	ord (Repo	ort all strings			Dotto	m Cto	ge Ceme	mton	No. o	f Sks. &	Slurry	Wal			
Hole Size	Size/G		Wt. (#/ft.)	To (M	D)	Botto (MD))	Depth			f Cement	(BB		Cement 7	op*	Amount Pulled
26.000		O COND	65.0		0		80	-	80		70	_	000			
12.250 8.750	1	625 J-55 00 P110	36.0 17.0		0		292 885		290 858		72 137	_	332 459		0 2732	
8.750	5.50	00 P110	17.0		0	l °	000	00	000		137	7	459		2132	
												1				
24. Tubing	Record															
	Depth Set (N		acker Depth	(MD)	Si	ze I	Depth Set	(MD)	Pa	acker Dep	oth (MD)	th (MD) Size Depth Set (MD) Packer Depth (Packer Depth (MD)	
2.875 25. Produci		6713					26 Perf	oration I	Reco	rd						
	ormation		Тор		Ro	ttom	20.1011					Size	\Box	No. Holes		Perf. Status
A)	GREEN R	IVFR		6791	ВО	7601		remora	Perforated Interval 6791 TO 7601			0.380		135 OPEN		
B)	WASA			7625		8668				7625 T		0.3			OPEN	
C)																
D)																
27. Acid, Fi	acture, Treat	ment, Cer	ment Squeeze	e, Etc.												
]	Depth Interva								Ar	nount and	l Type of I	Material				
			601 GREEN 668 WASAT													
	76	25 10 8	008 WASAT	CH SE	E ATT	ACHED (STAGES	1-4								
28. Product	ion - Interval	A														
Date First	Test	Hours	Test	Oil		Gas	Water		Oil Gr		Gas		Producti	on Method		
Produced 05/21/2013									FLOW	/S FRC	M WELL					
Choke Tbg. Press. Csg. 24 Hr. Oil Gas Water Gas:Oil Well Status								Status								
Size Flwg. 1950 Press. Rate BBL MCF BBL Ratio 26/64 SI 850.0 POW																
	tion - Interva										1					
Date First	Test	Hours	Test	Oil		Gas	Water		Oil Gra		Gas		Producti	on Method		
roduced	Date	Tested	Production	BBL		MCF	BBL		Corr. A	AFI	Gravi	.y				
Choke	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL		Gas MCF	Water BBL		Gas:Oi Ratio	il	Well	Status	<u>I</u>			
	SI	1		I			1	- 1								

32. Additional remarks (include	plugging proce	edure):			
TOC was calculated by CE	L. Conducto	r cemented w	ith grout. Atta	ached is Treatn	nent data,
Logs(CBL will be mailed de	ue to file size) and End of \	Well Report.	First oil sales v	were
on 5/25/2013, first gas sale					

22	C:1-	11	l attachme	4
		enciosed	і апаспте	mrs.

1. Electrical/Mechanical Logs (1 full set req'd.)

2. Geologic Report

3. DST Report

4. Directional Survey

5. Sundry Notice for plugging and cement verification

6. Core Analysis

7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #210485 Verified by the BLM Well Information System. For BILL BARRETT CORPORATION, sent to the Vernal

Name (please print) CHRISTINA HIRTLER	Title ADMINISTRATIVE ASSISTANT	
Signature	(Electronic Submission)	Date <u>06/12/2013</u>	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

4-5D-45 BTR Completion Report Continued*

	44. ACID, FRACTURE, TREA	TMENT, CEMENT S	QUEEZE, ETC. (con	nt.)
	AMOUNT A	ND TYPE OF MATE	RIAL	
<u>Stage</u>	BBLS Slurry	lbs 100 Common	lbs 20/40 White	gal 15% HCI Acid
		<u>Mesh</u>	Sand	
1	3145		150100	3937
2	2815		95900	3534
3	3120		149900	3912
4	3107		149900	3898
5	3557	14600	160100	3902
6	3540	14600	160000	3913
7	3133	13460	140300	3892

^{*}Depth intervals for frac information same as perforation record intervals.

SPERRY-SUN DRILLING SERVICES

CERTIFIED SURVEY WORK SHEET

OPERATOR:		Bill Barrett	Corn	1			cene In	b Number :		900198586	
WELL:		4-5D-45					-	te of Job :		3/10/2013	
FIELD:		BTR					THE RESIDENCE IN	of Job :		4/14/2013	
RIG:	-	The same of the sa	and the second second second								
TO MAN TO SOME STATE OF THE SOURCE STATE OF TH		Nabors	The state of the s				Lead Dir	ectional Driller:		Paul St.Onge	
LEGALS:		Sec. 5-T48							ACTIVITY THE PARTY OF THE PARTY	Wesley Cline	-
COUNTY:		Duches					Other SS	DS DD's :			
STATE:		Utah									
CAL. METHOD:		Min. Cu	Irv.				SSDS MV	VD Engineers :		Freddy Hale	
MAG. DECL. APP	LIED:	11.31	1							Adam Sampson	
VERTICAL SEC. 1	DIR.:	93.05	0								
				•			Geo Pilot	Engineer:			
		Main Hole =====		1st Side Track ==	=====>	2nd Side Track ==	The second secon	3rd Side Track ===	====>	4th Side Track =≥	and the same of th
Surface Casing		2290.00	Tie-on		Tie On		Tie On		Tie On		Tie On
First Wireline Surve	-		SS		MWD						
Last Wireline Surve	ey		SS								The second second second second
			-						_		
KOP Depth/Sidetra	ck MD		КОР		KOP-ST1		KOP-ST2		KOP-ST3		KOP-ST4
MWD Tie-on	ICK WID		KOP		KOF-SII		KOF-312		KUF-513		KOF-514
			+		1						
First MWD Survey	Depth	154.00	MWD		MWD		MWD		MWD		MWD
Last MWD Survey	Depth	8805.00	MWD		MWD		MWD		MWD		MWD
Bit Extrapolation @	TD	8868.00	T.D.		T.D.		T.D.		T.D.		T.D.
		The following Sp	erry Drilling S	Services personnel	, certify th	e above survey inf	ormation to	be accurate to the	e best of ou	r knowledge:	
		Print Name :	Paul St.Ong	je Pr	rint Name :	Wesley Cline	2	F	rint Name :		
Sign Name :				e Print Name : Adam Sampson				Sign Name :			
Print Name : Freddy Hal			F				rint Name :				
		Sign Name :		Si	ign Name :	Jellen			Sign Name :		
Examples of Survey Types:	TieOn MWD ESS Gyro SS	Sperry-Sun Drilli Sperry-Sun Drilli Gyro Survey's ; l	ng Services (ng Services (Provided by	SSDS) Measuremonds SSDS) Electronic third party vendor,	ent While D Survey Sys or by Spe	disting MWD Survey Drilling (MWD) Survey Stem (ESS) Survey rry-Sun Drilling Se g Services (SSDS)	rey's 's rvices (SSI	os)			

Design Report for 4-5D-45 BTR - Sperry Final Surveys

n Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00
40 198.80	00 154.00	-0.51	-0.17	0.23	0.26
@ 154.00' MD					
51 210.16	30 215.00	-0.95	-0.38	0.48	0.23
53 223.34	10 275.99	-1.39	-0.71	0.86	0.20
38 210.90	00 336.99	-1.76	-1.01	1.20	0.29
30 244.79		-2.01	-1.26	1.48	0.34
30 267.60	00 459.99	-2.08	-1.56	1.79	0.19
39 327.3°	10 520.99	-1.92	-1.83	2.04	0.58
46 318.3	70 588.99	-1.52	-2.14	2.30	0.14
44 319.3	649.99	-1.16	-2.46	2.57	0.04
26 302.24	10 710.98	-0.91	-2.73	2.81	0.34
21 291.10		-0.79	-2.95	3.02	0.11
32 274.79	90 833.98	-0.74	-3.22	3.29	0.21
42 259.00	894.98	-0.76	-3.61	3.68	0.23
76 243.5	50 955.98	-0.99	-4.20	4.28	0.61
85 230.90	1,016.97	-1.45	-4.91	5.04	0.33
28 236.3	70 1,077.97	-1.82	-5.38	5.56	0.94
29 73.18	1,138.97	-1.86	-5.36	5.54	0.92
74 34.28	1,200.97	-1.48	-4.99	5.12	0.88
89 19.2°	1,260.96	-0.72	-4.61	4.67	0.43
68 12.36	1,322.96	0.09	-4.38	4.34	0.37
31 357.4	1,383.95	0.61	-4.31	4.21	0.64
29 284.83	1,444.95	0.82	-4.46	4.34	0.58
60 240.48	1,507.95	0.69	-4.90	4.79	0.70
78 221.00	1,571.95	0.20	-5.48	5.42	0.46
52 238.73		-0.27	-6.01	6.00	0.52
52 295.5		-0.30	-6.51	6.50	0.79
72 312.86	*	0.10	-7.07	7.01	0.42
81 242.19	90 1,824.93	0.16	-7.75	7.68	1.41
31 206.9		-0.69	-8.47	8.49	1.27
99 193.22		-1.86	-8.92	9.08	0.67
77 176.38		-2.82	-9.02	9.29	0.53
38 183.99		-14.06	-9.53	11.08	0.84
75 181.49		-17.42	-9.70	11.64	1.02
43 163.28		-19.69	-9.51	11.71	2.32
82 123.8		-20.71	-8.90	11.22	1.49
84 78.86		-20.87	-8.07	10.42	1.01
03 25.92		-20.27	-7.37	9.66	1.35
12 348.2		-19.14	-7.25	9.40	1.09
93 336.97		-18.07	-7.57	9.60	0.44
68 326.36		-17.28	-7.98	9.92	0.46
28 282.52		-16.82	-8.87	10.75	1.46
39 297.3		-16.05	-10.76	12.53	1.87
36 309.2		-13.94	-13.78	15.29	3.30
57 305.66		-10.64	-18.12	19.22	1.98
37 299.04		-7.16	-23.66	24.33	1.67
		-3.85	-30.55	30.79	2.27
			-38.81	38.63	1.36 2.33
	59 292.87 31 289.32	59 292.870 3,209.29 31 289.320 3,272.67	59 292.870 3,209.29 -3.85 31 289.320 3,272.67 -0.67	59 292.870 3,209.29 -3.85 -30.55 31 289.320 3,272.67 -0.67 -38.81	59 292.870 3,209.29 -3.85 -30.55 30.79 31 289.320 3,272.67 -0.67 -38.81 38.63

Design Report for 4-5D-45 BTR - Sperry Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	
3,401.00	10.36	278.300	3,397.00	3.87	-58.70	57.86	1.97	
3,465.00	11.13	274.870	3,459.87	5.23	-70.55	69.48	1.56	
3,528.00	11.13	274.670	3,521.68	6.00	-82.73	81.49	0.76	
3,591.00	10.15	267.430	3,583.59	6.01	-94.39	93.07	2.23	
3,654.00	9.77	264.130	3,645.64	5.22	-105.26	103.95	1.09	
3,717.00	10.62	265.390	3,707.64	4.20	-116.36	115.10	1.39	
3,717.00	10.02	203.390	3,707.04	4.20	-110.30	113.10		
3,781.00	10.96	267.950	3,770.51	3.51	-128.32	127.06	0.92	
3,844.00	10.50	267.970	3,832.41	3.09	-140.04	138.75	0.73	
3,907.00	10.31	264.440	3,894.38	2.34	-151.39	150.11	1.06	
3,970.00	11.02	265.680	3,956.29	1.34	-163.00	161.76	1.18	
4,034.00	11.09	266.320	4,019.10	0.49	-175.25	174.02	0.22	
4,097.00	11.17	263.900	4,080.92	-0.55	-187.36	186.18	0.75	
4,158.00	11.81	268.870	4,140.69	-1.30	-199.48	198.30	1.93	
4,222.00	11.88	274.030	4,203.33	-0.97	-212.60	211.29	1.66	
4,285.00	11.34	271.990	4,265.04	-0.30	-225.25	223.79	1.08	
4,348.00	10.90	269.530	4,326.86	-0.13	-237.40	235.84	1.03	
4,412.00	10.39	267.920	4,389.76	-0.39	-249.22	247.61	0.92	
4,475.00	10.14	265.990	4,451.75	-0.98	-260.43	258.81	0.67	
4,538.00	9.83	263.760	4,513.80	-1.95	-271.31	269.73	0.79	
4,601.00	9.31	260.440	4,575.92	-3.39	-281.68	280.19	1.20	
4,663.00	9.19	258.490	4,637.12	-5.21	-291.48	290.14	0.54	
4,726.00	9.67	270.480	4,699.27	-6.17	-301.70	300.40	3.20	
4,790.00	10.37	277.440	4,762.30	-5.37	-312.78	311.32	2.18	
4,853.00	10.78	277.130	4,824.23	-3.91	-324.25	322.55	0.66	
4,916.00	10.09	273.090	4,886.18	-2.88	-335.61	333.71	1.60	
4,979.00	9.74	272.790	4,948.24	-2.32	-346.44	344.41	0.56	
5,043.00	11.08	278.040	5,011.19	-1.20	-357.94	355.70	2.56	
5,106.00	11.27	278.080	5,073.00	0.51	-370.03	367.51	0.30	
5,168.00	10.63	275.140	5,133.87	1.88	-381.72	378.97	1.37	
5,231.00	9.93	271.990	5,195.86	2.59	-392.94	390.03	1.42	
5,294.00	9.17	267.470	5,257.98	2.55	-403.38	400.41	1.69	
5,358.00	8.54	264.340	5,321.22	1.86	-413.21	410.24	1.24	
5,421.00	8.18	261.830	5,383.55	0.76	-422.30	419.40	0.81	
5,485.00	7.84	258.600	5,446.93	-0.75	-431.09	428.30	0.88	
5,548.00	7.38	254.860	5,509.37	-2.66	-439.20	436.59	1.07	
5,611.00	7.20	249.020	5,571.86	-5.13	-446.80	444.41	1.21	
5,674.00	6.27	240.250	5,634.43	-8.25	-453.47	451.40	2.20	
5,738.00	5.61	232.290	5,698.09	-11.89	-458.98	457.29	1.65	
5,801.00	5.39	228.200	5,760.80	-15.75	-463.62	462.35	0.71	
5,864.00	4.14	213.850	5,823.58	-19.61	-467.09	466.24	2.73	
5,927.00	2.95	193.210	5,886.46	-23.08	-468.73	468.27	2.74	
5,989.00	2.14	170.680	5,948.40	-25.77	-468.91	468.75	2.05	
6,052.00	1.75	120.150	6,011.37	-27.42	-467.88	467.93	2.69	
6,116.00	1.66	88.580	6,075.34	-27.89	-466.11	466.22	1.46	
6,179.00	1.58	84.940	6,138.32	-27.79	-464.34	464.45	0.21	
6,241.00	1.66	79.010	6,200.29	-27.54	-462.60	462.70	0.30	
6,304.00	1.04	111.410	6,263.28	-27.58	-461.17	461.28	1.52	
6,367.00	1.15	155.950	6,326.26	-28.36	-460.38	460.59	1.33	
6,431.00	1.36	169.850	6,390.25	-29.70	-459.99	460.35	0.58	
6,494.00	1.85	183.190	6,453.22	-31.45	-459.91	460.47	0.97	
6,557.00	1.74	181.570	6,516.19	-33.42	-460.00	460.78	0.19	
	1.1.1	.01.070	5,510.10	00.12	100.00	700.70	5.10	

Design Report for 4-5D-45 BTR - Sperry Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
6,620.00	0.91	175.490	6,579.18	-34.87	-459.98	460.94	1.33
6,684.00	0.86	223.950	6,643.17	-35.73	-460.28	461.33	1.14
6,747.00	1.10	247.230	6,706.16	-36.30	-461.16	462.27	0.73
6,810.00	1.95	270.960	6,769.14	-36.52	-462.79	463.92	1.65
6,874.00	2.97	254.590	6,833.08	-36.94	-465.48	466.64	1.92
6,937.00	4.35	259.390	6,895.95	-37.81	-469.40	470.63	2.24
7,000.00	3.77	263.280	6,958.79	-38.49	-473.81	475.09	1.02
7,064.00	1.83	232.070	7,022.71	-39.37	-476.70	478.06	3.75
7,127.00	2.99	149.840	7,085.67	-41.41	-476.67	478.27	5.22
7,190.00	3.64	150.810	7,148.57	-44.57	-474.87	476.84	1.04
7,253.00	3.25	135.500	7,211.45	-47.59	-472.64	474.98	1.58
7,317.00	2.68	111.370	7,275.37	-49.43	-469.98	472.54	2.12
7,380.00	2.32	77.010	7,338.31	-49.68	-467.36	469.98	2.41
7,443.00	1.38	35.970	7,401.28	-48.78	-465.67	468.19	2.49
7,507.00	1.43	333.680	7,465.27	-47.44	-465.58	467.94	2.27
7,570.00	0.95	283.260	7,528.26	-46.62	-466.43	468.70	1.75
7,633.00	1.06	233.280	7,591.25	-46.85	-467.41	469.69	1.36
7,697.00	1.01	208.950	7,655.24	-47.70	-468.16	470.53	0.69
7,760.00	1.11	183.130	7,718.23	-48.79	-468.46	470.96	0.77
7,823.00	1.69	186.080	7,781.21	-50.32	-468.59	471.27	0.93
7,886.00	1.88	181.720	7,844.18	-52.28	-468.72	471.62	0.37
7,950.00	2.09	179.900	7,908.14	-54.50	-468.75	471.91	0.34
8,013.00	2.48	185.740	7,971.09	-57.00	-468.88	472.33	0.72
8,076.00	2.81	190.070	8,034.02	-59.88	-469.29	473.06	0.61
8,140.00	3.01	193.920	8,097.94	-63.05	-469.97	474.10	0.44
8,203.00	2.99	197.800	8,160.85	-66.22	-470.87	475.36	0.32
8,266.00	2.53	202.970	8,223.78	-69.07	-471.91	476.73	0.83
8,330.00	2.22	222.440	8,287.73	-71.28	-473.30	478.36	1.34
8,393.00	1.81	232.770	8,350.69	-72.79	-474.92	480.14	0.87
8,456.00	1.61	244.960	8,413.66	-73.76	-476.51	481.84	0.66
8,519.00	1.12	277.870	8,476.64	-74.05	-477.92	483.27	1.44
8,583.00	0.54	298.250	8,540.63	-73.82	-478.81	484.12	1.00
8,646.00	0.81	237.800	8,603.63	-73.92	-479.45	484.77	1.14
8,709.00	1.30	220.540	8,666.62	-74.70	-480.29	485.70	0.92
8,805.00	1.68	211.960	8,762.59	-76.72	-481.74	487.37	0.46
Last Sperry I	MWD Survey @ 8	805.00' MD					
8,868.00	1.68	211.960	8,825.56	-78.29	-482.72	488.52	0.00
Straight Line	Projection to TD	@ 8868.00' MD					

Design Annotations

Measured	Vertical	Local Coor	dinates				
Depth	Depth	+N/-S	+E/-W	Comment			
(ft)	(ft)	(ft)	(ft)				
154.00	154.00	-0.51	-0.17	First Sperry MWD Survey @ 154.00' MD			
8,805.00	8,762.59	-76.72	-481.74	Last Sperry MWD Survey @ 8805.00' MD			
8,868.00	8,825.56	-78.29	-482.72	Straight Line Projection to TD @ 8868.00' MD			

Design Report for 4-5D-45 BTR - Sperry Final Surveys

Angle Origin Origin Start Type Azimuth Type Target +N/_S +E/-W TVD (°) (ft) (ft) (ft) 4-5D-45 BTR_BHL Plat Target 263.386 Slot 0.00 0.00 0.00

Survey tool program

From То Survey/Plan **Survey Tool** (ft) (ft) 154.00 8,868.00 Sperry MWD Surveys MWD

Targets

Target Name - hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting			
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	Latitude	Longitude	
4-5D-45 BTR_BHL Pla	0.00	0.00	8,795.00	-55.71	-480.44	669,554.28	2,285,056.46	40° 10' 1.729 N	110° 28' 47.860 W	
actual wellpath miPoint	sses targe	et center b	y 21.89ft at 88	336.86ft MD (87	'94.43 TVD, -7	7.52 N, -482.23	3 E)			
4-5D-45 BTR_ZONE T	0.00	0.00	6,350.00	-55.71	-480.44	669,554.28	2,285,056.46	40° 10' 1.729 N	110° 28' 47.860 W	
actual wellpath miRectangle (sides \				391.18ft MD (63	350.44 TVD, -2	8.83 N, -460.20) E)			
4-5D-45 BTR_SHL	0.00	0.00	0.00	0.01	0.00	669,615.48	2,285,536.19	40° 10' 2.280 N	110° 28' 41.671 W	
actual wallnoth hit	a taraat aa	ontor								

actual wellpath hits target centerPoint

North Reference Sheet for Sec. 5-T4S-R5W - 4-5D-45 BTR - Plan A

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to RKB 22' @ 5795.00ft (Nabors M22). Northing and Easting are relative to 4-5D-45 BTR

Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is 111° 30' 0.000 W°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 39' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99991560

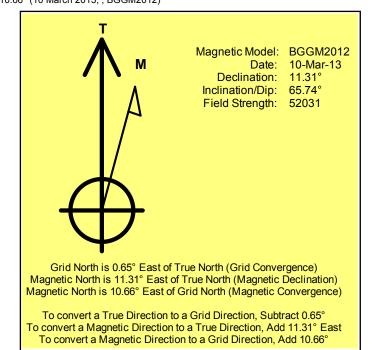
Grid Coordinates of Well: 669,615.47 ft N, 2,285,536.19 ft E

Geographical Coordinates of Well: 40° 10' 02.28" N, 110° 28' 41.67" W

Grid Convergence at Surface is: 0.65°

Based upon Minimum Curvature type calculations, at a Measured Depth of 8,868.00ft the Bottom Hole Displacement is 489.03ft in the Direction of 260.79° (True).

Magnetic Convergence at surface is: -10.66° (10 March 2013, , BGGM2012)

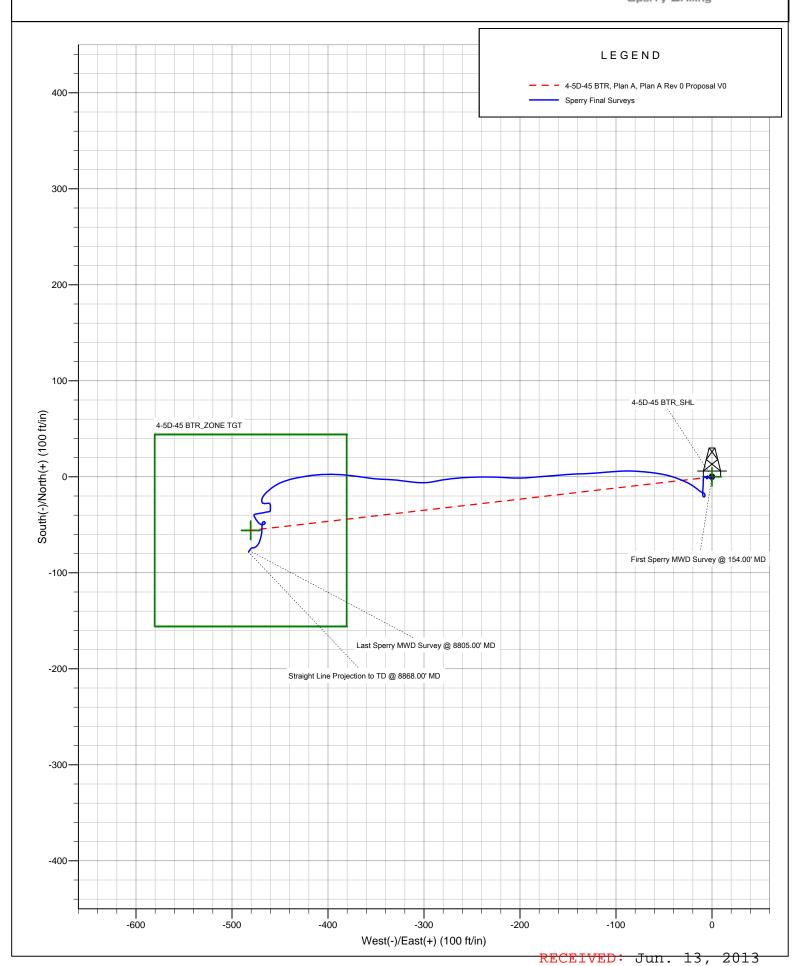


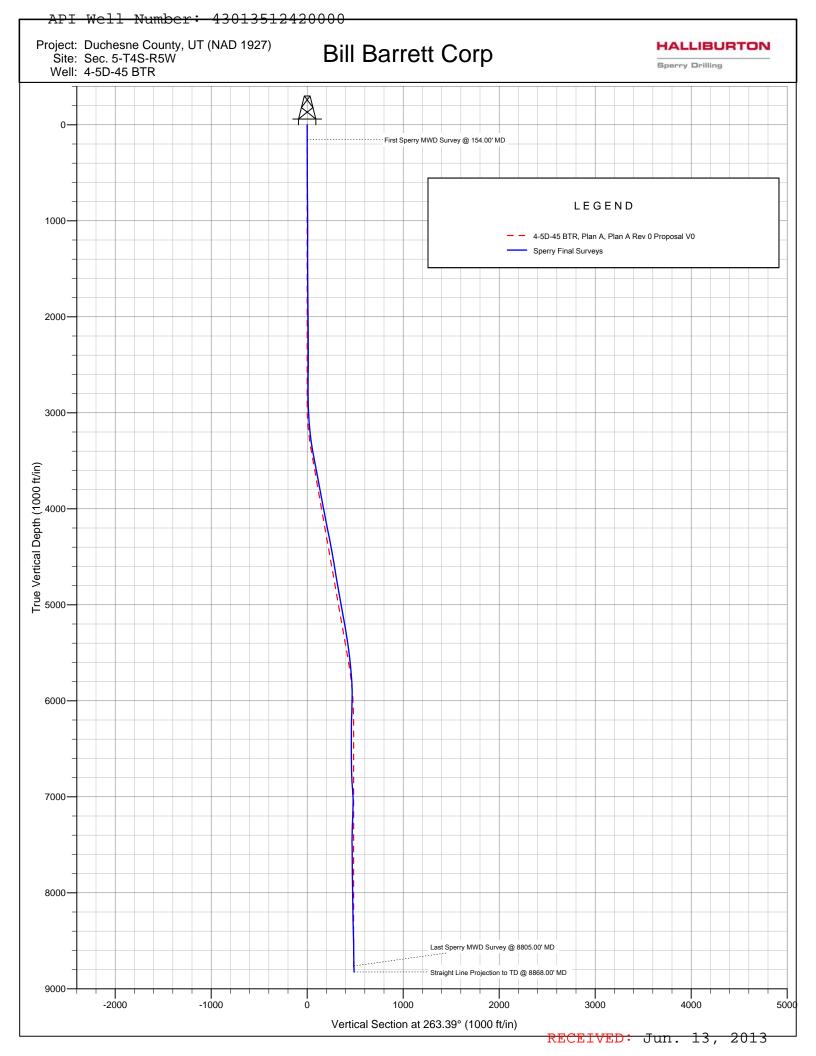
Project: Duchesne County, UT (NAD 1927) Site: Sec. 5-T4S-R5W

Well: 4-5D-45 BTR

Bill Barrett Corp









4													
	45 BTR				- 3/8/2013			The man					
^{API/UWI} 4301351 Time Lo	2420000		State/Provinc UT	e	County Duchesne	Field Name Black Ta	ail Ridge	Well Status PRODUCING	1	otal Depth (ftKB)	8,868.0	Primary Job Type Drilling & Completion	
Start Time	Dur (hr)	End Time	Code		Category					Com			
22:00	8.00	06:00	1	RIGUP	& TEARDOWN		Rig dowr	Prepare for trucks. I	Move camp	os.			
_	45 BTR				- 3/9/2013								
API/UWI 4301351	2420000		State/Provinc UT	e	County Duchesne	Field Name	ail Ridge	Well Status PRODUCING	ī	otal Depth (ftKB)	8 868 N	Primary Job Type Drilling & Completion	
Time Lo			<u> </u>		Buomouno	Black 10	an raago	11102001110			0,000.0	Drining a completion	
Start Time	Dur (hr)	End Time	Code	DIGUE	Category					Com			
06:00	24.00	06:00	1		& TEARDOWN		MIRU, M	ud tanks and entire b	backyard se	et in.			
4-5D-	45 BTR				- 3/10/2013	3 06:00 Field Name	-	Two III Over	1-	Section Description		D'ann la Tan	
	2420000		State/Provinc UT	e	County Duchesne		ail Ridge	Well Status PRODUCING	['	otal Depth (ftKB)	8,868.0	Primary Job Type Drilling & Completion	
Time Lo	g					'						,	
Start Time 06:00	Dur (hr)	End Time	Code	PIGLID	& TEARDOWN		Move an	d assemble Substruc	cture and de	Com prrick Derrick	roady to	raico	
			12042			12.00-00			ciure and de	errick. Derrick	ready ic	raise.	
4-5D-	45 BTR		State/Province		- 3/11/201	Field Name		Well Status	17	otal Depth (ftKB)		Primary Job Type	
	2420000		UT		Duchesne		ail Ridge	PRODUCING		otal Doptil (title)	8,868.0	Drilling & Completion	
Time Lo					-		1						
Start Time 06:00	Dur (hr) 20.00	End Time	Code	RIGUP	& TEARDOWN		Raise de	rrick, Continue rig up).	Com			
02:00		04:30	21	OPEN	<u> </u>			onductor, flowline and		es.			
04:30		06:00	21	OPEN			Rack & strap BHA						
4-5D-	45 BTR	3/11	/2013	06:00	- 3/12/201	3 06:00	0	<u> </u>					
API/UWI			State/Provinc	е	County	Field Name		Well Status	Т	otal Depth (ftKB)		Primary Job Type	
4301351 Time Lo	2420000		UT		Duchesne	Black Ta	ail Ridge	PRODUCING			8,868.0	Drilling & Completion	
Start Time	Dur (hr)	End Time	Code		Category					Com			
06:00	, ,	13:00	20	DIREC	TIONAL WORK		P/U dir to	ools & orient drill to 17	79'				
13:00	0.50	13:30	7		CATE RIG		Rig servi						
13:30		18:30	2		ACTUAL		Drlg 179						
18:30 19:00	0.50	19:00 06:00	7		CATE RIG		Rig servi	ce -997'. Survey @ 895'	1 40 in a 0E() o= MM 0 C	. #/aal 20) vie	
						10.00-00		-997 . Survey @ 695	.42 IIIC 25	9 az. IVIVV 0.0	r#/yai 38	7 VIS	
4-5D-	45 BTR		State/Province		- 3/13/201	Field Name		Well Status	17	otal Depth (ftKB)		Primary Job Type	
	2420000		UT	·C	Duchesne	1	ail Ridge	PRODUCING	['	otal Depth (ttNb)	8,868.0	Drilling & Completion	
Time Lo		1			_		•			_			
Start Time 06:00	Dur (hr) 20.50	End Time	Code 2	DRILL	Category ACTUAL		Drill 997'	- 2083'.		Com			
02:30		06:00	21	OPEN			Took gas flash fire		rted @ 05:1	dropped to		ble to surface @ 05:00, o floor. @ 06:00	
4-5D-	45 BTR	3/13	/2013	06:00	- 3/14/201	3 06:00	0						
API/UWI	2420000		State/Provinc	е	County	Field Name		Well Status	Т	otal Depth (ftKB)	0.000.0	Primary Job Type	
4301351 Time Lo	2420000 g		اد		Duchesne	DIACK T	ail Ridge	PRODUCING			0,000.0	Drilling & Completion	
Start Time	Dur (hr)	End Time			Category					Com			
06:00	24.00	06:00	5	COND	MUD & CIRC			well @ 110 strokes, afety standdown, pla				d mw to 9.8 ppg. BBC and	
	45 BTR				- 3/15/201								
API/UWI 4301351	2420000		State/Provinc UT	e	County Duchesne	Field Name Black Ta	e ail Ridge	Well Status PRODUCING		otal Depth (ftKB)	8,868.0	Primary Job Type Drilling & Completion	
Time Lo						3.00K TC	90				2,300.0		
Start Time	Dur (hr)	End Time		COND	Category		Circuit	all @ 440 :: 1	1000 : 1.7	Com	mar- '	duia Dianedou 500 t	
06:00	24.00	06:00	5	COND	MUD & CIRC			well @ 110 strokes, ulled catwalk out of w		-ıre marshall	inspecte	d rig. Rigged up 500 ton	

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PI/UWI	45 BTR		State/Provinc		Field Name		Well Status	Total Depth (ftKB)	Primary Job Type		
	2420000		JT	Duchesne	Black Tail	Ridge	PRODUCING		3,868.0 Drilling & Completion		
ime Lo tart Time		End Time	Code	Cotomon				Com			
6:00	. ,	19:00	5	Category COND MUD & CIRC	d	drive. Flo	w check, pull top drive	200 psi. Put counterweig	ghts on crane, tied on to top illing line and tie off, remove n-143 psi).		
9:00	2.50	21:30	21	OPEN	R	R/U DCT	wireline, perforate HW	'DP @ 1666'.			
21:30	6.00	03:30	5	COND MUD & CIRC	C	C&C hole	/wait on cement.				
1-5D-	45 BTR	3/16	/2013	06:00 - 3/17/201	13 06:00						
PI/UWI	2420000		State/Provinc JT	e County Duchesne	Field Name Black Tail	Ridge	Well Status PRODUCING	Total Depth (ftKB)	Primary Job Type 3,868.0 Drilling & Completion		
Fime Lo			71	Ducheshe	Diack Tall	Riuge	r Robocing		5,000.0 Dilling & Completion		
Start Time	Dur (hr)	End Time		Category				Com			
06:00		12:00	5	COND MUD & CIRC			well @ 70 strokes, 725	•			
12:00	2.00	14:00	17	PLUG BACK	4.15 yld, 27.82 gps H2O. Mix and pump 610 sx(247 bbls) tuned light cement @ 1 2.28 yld, 10.48 gps H2O @ 4 bpm. Pump 3.5 bbls to clear lines. Full returns, max pressure 400 psi. Returned 25 bbls cmt to surface. Cement fell 6" in 45 minutes. Drained and flushed conductor. Cement job witnessed and okayed by Glade Ric Vernal BLM.						
4:00	16.00	06:00	13	WAIT ON CEMENT	V	Vait on c	ement. Checked cmt @	2 23:00, too soft to cut of	off.		
4-5D-	45 BTR	3/17	/2013	06:00 - 3/18/201	13 06:00						
API/UWI	0.400000		State/Provinc	I '	Field Name	D: I	Well Status	Total Depth (ftKB)	Primary Job Type		
4301351 Fime Lo	2420000		JT	Duchesne	Black Tail	Ridge	PRODUCING] 8	3,868.0 Drilling & Completion		
Start Time	Dur (hr)	End Time	Code	Category				Com			
6:00	4.00	10:00	13	WAIT ON CEMENT	٧	VOC. Re	pair rig.				
0:00	6.00	16:00	21	OPEN	ir	ndication	s up through cement.		f gas. Cut on conductor, Gas P, weld 1/2" plate w/2" 3000# I State contacted.		
16:00	14.00	06:00	8	REPAIR RIG	re	Removed emoval.	and replaced top driv	e, blocks, ST-80 iron ro	ughneck. Drawworks readied fo		
	45 BTR			06:00 - 3/19/201							
API/UWI 1301351	2420000		State/Provinc JT	County Duchesne	Field Name Black Tail	Ridae	Well Status PRODUCING	Total Depth (ftKB)	Primary Job Type 3,868.0 Drilling & Completion		
Time Lo			-	2 40.100.10	Diagn. rain	·go			,,oooro 2 mm ng ar compressor		
Start Time	. ,	End Time		Category				Com			
06:00	24.00	06:00	8	REPAIR RIG		Set rotary system wi		rane. Remove & replac	e drawworks. Set walking		
	45 BTR	3/19	/2013	06:00 - 3/20/201	13 06:00						
4-5D-		15	State/Provinc	e County Duchesne	Field Name Black Tail	Pidge	Well Status PRODUCING	Total Depth (ftKB)	Primary Job Type 3,868.0 Drilling & Completion		
.PI/UWI	2420000		JT		Black Fall	Muge			3		
1301351 1 ime Lo	g	ι			DIACK TAIL	Ridge	1	'			
PI/UWI 1301351 Fime Lo Start Time	Dur (hr)	End Time	Code	Category	•	Ţ.		Com			
API/UWI 4301351 Fime Lo Start Time	Dur (hr)	ι		Category REPAIR RIG	H	Had to rev	move DW (wrong style	Com), wait on replacement.	Install new DW. Finish setting id. Replace and repair electric		
API/UWI 4301351 Fime Lo Start Time 06:00	Dur (hr)	End Time 06:00	Code 8	REPAIR RIG 06:00 - 3/21/201	H w a	Had to rev	move DW (wrong style ystem. Rearranged ho ulic components.	Com), wait on replacement. using to accomodate sk	Install new DW. Finish setting id. Replace and repair electric		
PI/UWI 1301351 Time Lo Start Time 16:00 4-5D- PI/UWI 1301351	Dur (hr) 24.00 2420000	End Time 06:00	Code 8	REPAIR RIG 06:00 - 3/21/201	H w a	Had to rei valking sy and hydra	move DW (wrong style	Com), wait on replacement. using to accomodate sk	Install new DW. Finish setting		
PI/UWI 301351 ime Lo Start Time 06:00 4-5D- PI/UWI 301351 ime Lo	Dur (hr) 24.00 -45 BTR 2420000	End Time 06:00	Code 8 /2013 State/Provinc	06:00 - 3/21/201 e County Duchesne	13 06:00 Field Name	Had to rei valking sy and hydra	move DW (wrong style ystem. Rearranged ho ulic components.	Com), wait on replacement. using to accomodate sk	Install new DW. Finish setting id. Replace and repair electric		
PI/UWI 301351 Time Lo Start Time 06:00 4-5D- PI/UWI 301351 Time Lo Start Time	Dur (hr) 24.00 -45 BTR 2420000 9 Dur (hr)	End Time 06:00	Code 8 /2013 State/Provinc	REPAIR RIG 06:00 - 3/21/201	H W a a 13 06:00 Field Name Black Tail	Had to revalking syand hydra	move DW (wrong style ystem. Rearranged ho ulic components. Well Status PRODUCING installation of DW, rota	Com), wait on replacement. using to accomodate sk Total Depth (ftKB) 8	Install new DW. Finish setting id. Replace and repair electric Primary Job Type 8,868.0 Drilling & Completion onents. Walked rig 30' east		
4-5D- 6:00	Dur (hr) 24.00 -45 BTR 2420000 9 Dur (hr)	3/20/ S L End Time 06:00	Code 8 /2013 State/Province JT Code 8	REPAIR RIG 06:00 - 3/21/201 County Duchesne Category	H W a a 13 06:00 Field Name Black Tail	Had to revalking syand hydra	move DW (wrong style ystem. Rearranged ho ulic components. Well Status PRODUCING installation of DW, rota	Com), wait on replacement. using to accomodate sk Total Depth (ftKB) 8 Com Com	Install new DW. Finish setting id. Replace and repair electric Primary Job Type 8,868.0 Drilling & Completion onents. Walked rig 30' east		
APPI/UWI 4301351 Fime Lo Start Time D6:00 4-5D- APPI/UWI 4301351 Fime Lo Start Time D6:00 4-5D- APPI/UWI	24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	3/20/ S End Time 06:00	Code 8 /2013 State/Province JT Code 8	REPAIR RIG 06:00 - 3/21/20' County Duchesne Category REPAIR RIG 06:00 - 3/22/20'	H W a a 13 06:00 Field Name Black Tail	Had to reivalking syand hydra Ridge Continue	move DW (wrong style ystem. Rearranged ho ulic components. Well Status PRODUCING installation of DW, rota	Com), wait on replacement. using to accomodate sk Total Depth (ftKB) Com ary table, various componew hole w/Uintah Engir	Install new DW. Finish setting id. Replace and repair electric Primary Job Type 8,868.0 Drilling & Completion onents. Walked rig 30' east		



				•								
Time Lo	g											
Start Time	Dur (hr)	End Time	Code		Category				Com			
06:00	3.00	09:00	6	TRIPS				bottom. Hole clean.				
09:00	7.00	16:00	19	FISHING	3		Wash ov	er fish 684' - 1058'. Ceme	ent firm but still green.			
16:00	1.00	17:00	5	COND N	MUD & CIRC		C&C mud.					
17:00	5.00	22:00	6	TRIPS			LD WP. I	LD WP. Hole clean, filled properly, no drag.				
22:00	1.00	23:00	19	FISHING	3		PU overs	PU overshot, grapple, packoff, latch on to DP.				
23:00	7.00	06:00	19	FISHING	3			Pragma and clean catwa		d. Transfer mud from shaker		
4-5D-	45 BTR	3/28/	/2013	06:00	- 3/29/2013	3 06:00	0					
API/UWI	0.400000		tate/Provinc		County	Field Name		Well Status	Total Depth (ftKB)	Primary Job Type		
	2420000	ι	JT		Duchesne	Black Ta	ail Ridge PRODUCING 8,868.0 Drilling & Completion					
Time Lo Start Time	Dur (hr)	End Time	Code		Category		Com					
06:00		09:00	19	FISHING			Supersuc	k shaker pits, fill w/200 b		:09.5#.		
09:00		15:00	19	FISHING				(-overs				
15:00		17:00	19	FISHING					avdown 5 3/4" washning	subs and over shot. P/U 8		
15.00	2.00	17.00	19	FISHING	2		1/8" over			Pull 5K over string. Set slips		
17:00	12.00	05:00	19	FISHING	HING Est pump rate of .9 bpm @ 4200#. RIH drill cmt to 739'. Well flowing over conductor. Discovered plugged flowline causing returns to back up. Cleaned out flowline and resumed drilling. Fell thru cmt @ 1675'. RIH to 1950. CIrc clean and POH.							
05:00	1.00	06:00	19	FISHING	3		Toh w/co	iled tubing.				
	45 BTR			06:00	:00 - 3/30/2013 06:00							
API/UWI	70 D III		tate/Provinc		County	Field Name	_	Well Status	Total Depth (ftKB)	Primary Job Type		
	2420000	ι	JT		Duchesne	Black Ta	ail Ridge	PRODUCING	8,8	68.0 Drilling & Completion		
Time Lo												
Start Time	Dur (hr)	End Time	Code	FIGURIA	Category		Finial DC	N.I 11. 4b-s d - d	Com	II. in Discourse orienties a seed DIII.		
06:00	10.00	16:00	19	FISHING	j		Finish POH coil tbg and rig down. Set Pragma and catwalk in. Rig up wireline and RIH to freepoint. Pulled off of fish top. POH wireline. Redress overshot and get on fish again. Pickup 2 6" drill collars with bumper sub and work overshot down on fishtop. Pick up to 95000# several times.					
16:00	8.00	00:00	19	FISHING	9		Rig up V	/ireline and run freepoint 1016' Backoff successf	. Pipe free @ 1016', 104 ful. POH wireline.	17' 50% stuck @ 1229'.Run		
00:00	3.50	03:30	19	FISHING	3		Circulate brine out of hole. CIrculate and condition mud.					
03:30	2.50	06:00	19	FISHING	}		FIII trip tanks. Do flow check. HSM Pull up and L/D overshot and TOH.					
	45 BTR				- 3/31/2013							
API/UWI 4301351	2420000		tate/Provinc JT		County Duchesne	Field Name Black Ta		Well Status PRODUCING	Total Depth (ftKB)	Primary Job Type 68.0 Drilling & Completion		
Time Lo			71		Ducheshe	DIACK 1	all Rluge	I KODOCING	0,0	56.0 Drilling & Completion		
Start Time	Dur (hr)	End Time	Code		Category				Com			
06:00			19	FISHING			TOH & S	td Back 2 Std DP & 5 Std		d = 1016'.		
07:00		15:00	19	FISHING				rap & P/U 945' Of Wash				
15:00		06:00	19	FISHING			Wash Ov	•	•	6pm 715, Rpm 45, Wob 3k -		
4-5D-	45 BTR	3/31/	/2013	06:00	- 4/1/2013	06:00	ok. rtouri	ing Every to vvasiled.				
API/UWI 4301351	2420000	S	tate/Provinc JT	е	County Duchesne	Field Name	e ail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,8	Primary Job Type 68.0 Drilling & Completion		
Time Lo	g											
Start Time	Dur (hr)	End Time	Code		Category				Com			
06:00	10.00	16:00	19	FISHING			Went Ov		Start To Change - Firm	ic Lift as 8 1/8" Wash pipe Cement Decision Made To		
16:00	4.50	20:30	19	FISHING	3		TOH w/ 5	Stds HWDP - Rack Bac	k 8 1/8" Wash Pipe -			
20:30		22:00	19	FISHING	3		1	s 10" Wash Pipe.				
22:00		22:30	7		ATE RIG			ce - Change Out 2" Valve	e On Mud Line.			
22:30		01:30	19	FISHING						Jts DP		
01:30		02:00	19				M/U Screw In Sub - TIH L/D & Replace 3 HWDP - P/U 18 Jts DP.					
								Screw Into Fish @ 1016'				
02:00	4.00	06:00	19	FISHING	•		Rig Up "DCT" Wireline Tools & RIH w/ Core Barrel & Spang Jars Hit Obstruction @ 1531' - Make 2 Runs, Core Bbl Full Of Cement. Make 3rd Run.					



API/UWI		8	State/Provin	ce County	Field Name		Well Status	Total Depth (ftKB) Primary Job Type			
	2420000	l	JT	Duchesne	Black Ta	ail Ridge	PRODUCING	8,868.0 Drilling & Completion			
Time Lo Start Time	Dur (hr)	End Time	Code	Category	V			Com			
06:00	, ,	10:00	19	FISHING	,		Point (DCT Wireline ashed Over To 1389)	Co.) Pipe Free to 1514' - Run String Shot & Back- off			
10:00	2.50	12:30	19	FISHING		TOH W/ Fish (366') - Pump Thru & Flush Fish - L/D Screw In Sub & Top Jt Of Fish And Joint Shot At Btm Of Fish.					
2:30	3.00	15:30	19	FISHING		M/U 9.0" O.D Shoe & 8 1/8" Wash pipe - 7 5/8 " WP Assy - TIH					
15:30	0.50	16:00	7	LUBRICATE RIG		Rig Servi					
6:00		06:00	19	FISHING		Tag @ 10	090' - Wash to Top Of	Cement @ 1389' - Wash Over Fish F/ 1389' To to 50 Sec/ Qt No Mud Lost To Date.			
	45 BTR	4/2/2	2013 (06:00 - 4/3/201							
PI/UWI	2420000		State/Provin JT	1 '	Field Name		Well Status PRODUCING	Total Depth (ftKB) Primary Job Type			
Fime Lo	2420000	·	JI	Duchesne	Black Ta	all Riage	PRODUCING	8,868.0 Drilling & Completion			
Start Time	Dur (hr)	End Time	Code	Category	V			Com			
06:00		01:00	19	FISHING		Wash Ov	er Fish F/ 1492' to 165	55' (163') Fell Thru Cement @ 1655'.			
01:00	0.50	01:30	5	COND MUD & CIRC			aluate Wellbore Condi ings Stable As Before.	tions - No Mud Gain Or Loss, No Increase In Gas (65			
)1:30	4.50	06:00	19	FISHING		Continue To Wash Over Fish f/ 1655' To 1820' (165'). Taking Wt Periodically To Mill Off. Conditioning Mud & Evaluating All Parameters. NO MUD LOSS TO DATE					
	45 BTR			06:00 - 4/4/201							
API/UWI	2420000		State/Provin	1 '	Field Name		Well Status	Total Depth (ftKB) Primary Job Type			
ime Lo	2420000	·	JT	Duchesne	Black Ta	all Riage	PRODUCING	8,868.0 Drilling & Completion			
Start Time	Dur (hr)	End Time	Code	Category	V			Com			
06:00		09:30	19	FISHING	,	Wash Ov 1944' (12	•	n Hole Annulas w/ 9.0" O.D. Shoe From 1820' to			
9:30	0.50	10:00	5	COND MUD & CIRC		C&C mud	d.				
0:00	3.00	13:00	6	TRIPS		TOH. LD\	WP.				
3:00	1.50	14:30	6	TRIPS		PU skirte	d screw-in sub, TIH to	1350'.			
4:30	0.50	15:00	5	COND MUD & CIRC		Circulate BU.					
5:00	6.00	21:00	19	FISHING			to fish, can't fully torqu n f/1944' - 1674' past c	e up, fish is turning. PU 110k on string, fish is free. Tomt.			
21:00	6.00	03:00	19	FISHING			g tools, remainder of fis no loss, no gas.	sh. Run pipe in derrick in hole, and lay down. Hole fille			
03:00	0.50	03:30	7	LUBRICATE RIG		Rig Servi	ce.				
03:30	2.50	06:00	6	TRIPS		PU 8" MN	/I, dialed to straight. Ra	acked & strapped 9 6.5" DCs, 27 4.5" HWDP.			
4-5D-	45 BTR	4/4/2	2013 (06:00 - 4/5/201	13 06:00						
	2420000		State/Provin JT	ce County Duchesne	Field Name Black Ta		Well Status PRODUCING	Total Depth (ftKB) Primary Job Type 8,868.0 Drilling & Completion			
ime Lo		1									
Start Time 06:00	Dur (hr) 6.00	End Time 12:00	Code 3	REAMING	У		DP, clean hole out f/1.00 psi @ 594 gpm.	Com 200' - 2083'. Easy washing, some formation and ceme			
12:00	1.00	13:00	5	COND MUD & CIRC			mp 2 25 bbl sweeps 20 overed fish to CSI for c	minutes apart. leaning and inspection.			
13:00	4.50	17:30	2	DRILL ACTUAL		Drill 2083 no losses		o 1450 psi, dp 200 psi, rop 20 fph. Hole torquie in spo			
17:30	0.50	18:00	7	LUBRICATE RIG		Rig service	ce. Check COM.				
8:00	3.00	21:00	2	DRILL ACTUAL		Drill 2170	' - 2292'. 594 gpm, spp	o 1450 psi, dp 175 psi, rop 41 fph.			
21:00	1.00	22:00	5	COND MUD & CIRC		C&C mud	l, run 2 sweeps. Pump	pill.			
22:00	2.50	00:30	6	TRIPS		Toh. Hole	e in good shape, took o	correct amount of fill, no losses, no gas.			
00:30		06:00	12	RUN CASING & CEN	MENT	RU caser	s, run 9 5/8", 36#, J-5	5, LT&C csg as follows: GS, 1 jt csg, FC, 51 jts csg. B shoe, top of jts 2 and 4, every other jt to 2072'.			
	45 BTR			06:00 - 4/6/201							
PI/UWI	2420000		State/Provin JT	ce County Duchesne	Field Name	ail Ridge	Well Status PRODUCING	Total Depth (ftKB) Primary Job Type 8,868.0 Drilling & Completion			
1301251											

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Time Lo	g												
Start Time	Dur (hr)	End Time			Category					Com			
06:00	3.00	09:00	5	COND	MUD & CIRC		Install rot	rubber, C&C mud	f/cmt.				
09:00	2.50	11:30	12	RUN CA	ASING & CEMENT		HSM. Cement surface csg as follows: Pump 20 bbls H2O, 40 bbls superflush, 20 bbls H2O. Mix and pump 340 sx(167.7 bbls) Halcem lead cmt @ 11.8 ppg, 2.77 yld, 16.67 gps H2O. Mix and pump 385 sx(165.5 bbls) Halcem tail cmt @ 14.8 ppg, 1.37 yld, 6.62 gps H2O. Wash lines, drop top plug, displace w/173.5 bbls mud(last 20 bbls H2O to clean lines. Max pressure 950 psi, bump plug to 1506 psi, floats held. Full returns, 97 bbls cmt to surf, no gas. Job witnessed by Ray Arnold of Vernal BLM.						
11:30	6.50	18:00	13	WAIT O	N CEMENT		Cement set too quickly to 1", wait 6.5 hrs to relax pipe and cut off. Cement very hard. Agreed upon by Ray Arnold.						
18:00	12.00	06:00	21	OPEN			ND riser, annular, cut csg off, clean pits. Riser full of hard cement.						
4-5D-	45 BTR	4/6/2	2013 0	6:00	- 4/7/2013 C	6:00							
API/UWI			State/Province	ce	County	Field Name		Well Status		Total Depth (ftK			
4301351		Į	UT		Duchesne	Black Ta	ail Ridge	PRODUCING			8,868.0 Drilling & Completion		
Start Time	Dur (hr)	End Time	Code		Category					Com			
06:00	. ,	10:00	21	OPEN	Category		Weld on o		e male cam		eel nipple dropped in hole while		
10:00	2.00	12:00	21	OPEN			Install nev	w Pason depth trac	ker box an	d cord on cro	own.		
12:00		17:00	15	TEST B	.О.Р		HSM. Test lower kelly, safety, dart valves, pipe & blind rams, choke line, manifold valves, kill line valve, check valve, hcr to 5000 psi high, 250 psi low f/10 min. Test to 2500 psi high, 250 psi low f/10 min. Test surface csg to 1500 psi f/30 min. Perl koomey function test. Test witnessed by Randy Bywater of Vernal NLM.						
17:00		22:00	21	_	OPEN			Install wear bushing, rot head and flowline.					
22:00		00:30	6	_	TRIPS			Tih w/mill tooth bit, junk sub. Tag junk @ 2239', rot @ 60 - 75 rpm, 15k - 30 wob. Stroke junk sub, run high-vis					
00:30	5.50	06:00	21	OPEN				@ 2239', rot @ 60 Orill to 2241', drilled					
_	45 BTR	4/7/2	2013 0	6:00 ·	- 4/8/2013 C	06:00							
4301351			State/Provinc UT	ce	County Duchesne	Field Name Black Ta	e ail Ridge	Well Status PRODUCING		Total Depth (ftK	(B) Primary Job Type 8,868.0 Drilling & Completion		
Time Lo	Dur (hr)	End Time	Code		Category					Com			
06:00		08:30	6	TRIPS	Category		Toh.			Com			
08:30	2.00	10:30	20	DIRECT	TONAL WORK		PU dir BHA.						
10:30	2.00	12:30	6	TRIPS			Tih.						
12:30	3.50	16:00	21	OPEN			Drill flt equip, cmt, 18' new hole to 2310'. FC @ 2245', FS @ 2290'.						
16:00	0.50	16:30	21	OPEN			Spot high	-vis LCM pill @ sh	oe. FIT to 2	55 psi for a 1	10.5 ppg EMW.		
16:30	2.00	18:30	2	DRILL A	ACTUAL			•		•	al pressure,won't drill.		
18:30	2.50	21:00	6	TRIPS			Pump pill BOP drill	Toh.			•		
21:00	2.50	23:30	6	TRIPS			X/O Bit, N	M. Tih.					
23:30	0.50	00:00	7	LUBRIC	ATE RIG		Rig Servi	ce.					
00:00	1.00	01:00	2	DRILL A	ACTUAL		Drill 2327	' - 2389'.					
01:00	5.00	06:00	8	REPAIR	RIG		Repair to	o drive brakes.					
4-5D-	45 BTR	4/8/2	2013 0	6:00 ·	- 4/9/2013 0	06:00							
API/UWI	0.400000		State/Province	се	County	Field Name		Well Status		Total Depth (ftK			
4301351		Į.	UT		Duchesne	Black 1	ail Ridge	PRODUCING			8,868.0 Drilling & Completion		
Start Time	Dur (hr)	End Time	Code		Category					Com			
06:00		09:30	2	DRILL A	ACTUAL		Steerable	drlg 2389' - 2642'.	. wob 15k, s		, dp 200 psi, rpm 51/83, rop 72 fph.		
09:30	0.50	10:00	7	LUBRIC	ATE RIG		Rig Servi	ce.					
10:00	5.00	15:00	2	DRILL A	ACTUAL		Steerable drlg 2642' - 3116'. wob 15-20k, spp 2150 psi, dp 200 psi, rpm 45 - 55/83, 95 fph. BOP Drill - 45 seconds.				psi, dp 200 psi, rpm 45 - 55/83, rop		
15:00	0.50	15:30	8	1				CR house.					
15:30	9.50	01:00	2	DRILL A				drlg 3116' - 3780'.	. wob 15-20	k, spp 2150	psi, dp 200 psi, rpm 45 - 55/83, rop		
01:00	0.50	01:30	7	LUBRICATE RIG Rig Service.									
		•	•	•			•						



4-5D-/	15 RTR	4/12	/2013	06·00	- 4/14/2013	3 06.00)					
API/UWI	+3 B I K		State/Province		- 4/14/201	Field Name		Well Status	Tota	al Depth (ftKB)	Primary Job Type	
43013512		ι	JT		Duchesne	Black Ta	il Ridge	PRODUCING		8,868.0	Drilling & Completion	
Time Log Start Time	Dur (hr)	End Time	Code		Category					Com		
06:00	. ,	07:30	5	COND	MUD & CIRC		C&C mud	f/wiper trip. Pump 2 high	h-vis Icm	sweeps, circ BU.		
07:30	9.00	16:30	6	TRIPS			HSM, check flow. Wiper trip to shoe. Trip went smooth, hole in good shape, took correct amount of fluid. Had to wash past 8050' and 8450', easy washing.					
16:30	2.00	18:30	5	COND N	MUD & CIRC		C&C hole f/logs. Circulate out gas, had 25' flare on bottoms up. Pump pill.					
18:30		02:00	6	TRIPS			Toh. LD c					
02:00		02:30	11		NE LOGS		HSM. RU					
02:30		05:00	8	REPAIR			running, f	xed faults in drawworks,			fuel and black out. Got rig	
05:00		06:00	11		NE LOGS		Tih w/logs	S				
_	45 BTR				- 4/15/2013							
API/UWI 43013512	2420000		State/Provinc JT	e	County Duchesne	Field Name Black Ta		Well Status PRODUCING	Tota	al Depth (ftKB) 8,868.0	Primary Job Type Drilling & Completion	
Time Log	3						Ü	I	,	•		
Start Time	Dur (hr)	End Time 10:00	Code 11	WIDELL	Category NE LOGS		Loguell	ron Dual Lateralea Cha	actral Day	Com	Noutron Commo Conio	
06:00					Array, Micro Spherically Focused log. Logger's TD - 8857'. RD loggers.							
10:00		12:00	6	TRIPS	PU bit, bit sub, T.I.H. F/0' T/1106' OFF DRILL LINE CUT & SLIP 75' (11 WRAPS) DRILL LINE							
12:00 12:30		12:30 17:00	9	TRIPS	· · · · · · · · · · · · · · · · · · ·							
17:00		20:00	5		ND MUD & CIRC CIRC- LOST RETURNS - PUMP 25% LCM SWEEP BUILD VOLUME BYPASS SHAKERS & BRING LCM CONTENT TO 15%							
20:00	0.50	20:30	6	TRIPS								
20:30		23:00	5	_	MUD & CIRC			DLUME & BRING LCM C	CONTEN	T TO 25%		
23:00	1.00	00:00	6	TRIPS				THE HOLE REAM BRI				
00:00	4.00	04:00	5	COND	MUD & CIRC			GH VIS/LCM SWEEP - (N GAS BUSTER - RAIS			S BACKGROUND GAS TO 10.1 PPG	
04:00	0.50	04:30	6	TRIPS			FLOW CH	HECK - L/D DRILL PIPE	FROM 8	868' T/8688'		
04:30	1.50	06:00	8	REPAIR	RIG		DOWNTII TRUCK 8	ME DUE TO STARTER I CREW	MOTOR	ON PRAGMA - WA	ITING ON LAYDOWN	
	45 BTR				- 4/16/2013							
API/UWI 43013512			State/Provinc JT	e	County Duchesne	Field Name Black Ta		Well Status PRODUCING	Tota	al Depth (ftKB) 8,868.0	Primary Job Type Drilling & Completion	
Time Log			Cada		Catagoni					Ca.		
Start Time 06:00	Dur (hr) 2.50	End Time 08:30	Code 8	REPAIR	Category R RIG		WAITING	ON LAY DOWN TRUCK	K (PRAG	Com MA BROKE DOWN	1)	
08:30		09:00	7		ATE RIG		RIG SER					
09:00	8.50	17:30	6	TRIPS			L/D DRIL	PIPE, HWDP, & 6" DC	Cs			
17:30	0.50	18:00	21	OPEN			PULL WE	AR BUSHING				
18:00	1.00	19:00	8	REPAIR	RIG		R/D LAY	DOWN TRUCK - REPLA	ACE STA	RTEER MOTOR O	N PRAGMA	
19:00	10.50	05:30	12	RUN CA	ASING & CEMENT			CSG CREW & RUN 20 LIZERS & 3 MARKER JO			SG W/60	
05:30	0.50	06:00	5	COND	MUD & CIRC		CIRC - R	D CSG CREW				
_	45 BTR	4/16	/2013	06:00	- 4/16/2013	3 22:00)					
43013512			State/Provinc JT	e	County Duchesne	Field Name Black Ta		Well Status PRODUCING	Tota	al Depth (ftKB) 8,868.0	Primary Job Type Drilling & Completion	
Time Log Start Time	Dur (hr)	End Time	Code		Category					Com		
06:00	. ,	08:30	5	COND	MUD & CIRC		CIRC B/L	WHILE RIGGING UP C	CEMENT			
08:30		12:30	12		TEST LINES @ 5000 PSI, PUMP 10 BBLS WATER, 40 BBLS SUPER FLUSH, 10 BBLS WATER, 297 BBLS 720 SKS 11 PPG 2.32 YIELD LEAD CEMENT MIXED @ 10.61, 162 BBLS 635 SKS 13.5 PPG 1.43 YIELD TAIL CEMENT MIXED @ 6.65 GAL/SK, SHUT DOWN WASH LINES & DROP PLUG, DISPLACE WITH 204 BBLS CLAYWEB WATER LAND PLUG @ 1666 PSI TAKE PRESSURE 500 PSI OVER FCP & HOLD FOR 2 MIN - RELEASE PRESSURE FLOATS HELD - FULL RETURNS DURING JOB - 73 BBLS CEMENT TO SURFACE - R/D CEMENTERS							
12:30		14:00	14	NIPPLE DOWN B.O.P NIPPLE DOWN BOP								
14:00	1.00	15:00	21	OPEN SET CSG SLIPS @ 180K - CUT OFF CSG								
		•	•	•								

Time Log Start Time 06:00 4-5D-45 BTR

43013512420000 UT Duchesne Black Tail Ridge **PRODUCING** Drilling & Completion Time Log Start Time Dur (hr) End Time Code Category Com 24.00 06:00 GOP General Operations JSA. CHECK PRESSURE. ND 7" NIGHT CAP. NU FRAC MANDREL, 5" 10K FRAC 06:00 VALVES, AND FRAC HEAD. PRES TEST CSG, VALVES, AND FB EQUIP. CONT

FILLING FRAC LINE. 4-5D-45 BTR 5/17/2013 06:00 - 5/18/2013 06:00

API/UWI

43013512420000 Black Tail Ridge **PRODUCING** 8,868.0 Drilling & Completion UT Duchesne Time Log Start Time Dur (hr) End Time Code 06:00 General Operations FINISH FILLING FRAC LINE. HEAT FRAC LINE 06:00 24.00 GOP

Well Status

4-5D-45 BTR 5/18/2013 06:00 - 5/19/2013 06:00 otal Depth (ftKB rimary Job Type 43013512420000 UT Duchesne Black Tail Ridge **PRODUCING** 8,868.0 Drilling & Completion Time Log

Start Time Dur (hr) End Time Code Category Com CREW TRAVEL 06:00 1.00 07:00 CTRL Crew Travel 07:00 1.00 08:00 SRIG Rig Up/Down HSM. MIRU SLB WITH 5K LUBE.

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Primary Job Type

Total Depth (ftKB)



Time Lo	Time Log										
Start Time	Dur (hr)	End Time	Code	Category	Com						
08:00	1.00	09:00	PFRT		PU GUNS FOR STG 1. RIH AND CORRELATE TO SJ AT 8280'-8302'. RUN DOWN AND PERF CR-4, CR-4A, AND CR-5 FORM 8405'-8668' WITH 39 HOLES IN 13' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT WELL IN.						
09:00	6.00	15:00	SRIG	Rig Up/Down	MIRU HES FRAC FLEET.						
15:00	15.00	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.						

4-5D-45 BTR	5/19/2013 06:00 -	5/20/2013 06:00
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API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512420000	UT	Duchesne	Black Tail Ridge	PRODUCING	8,868.0	Drilling & Completion

API/UVI			State/Province County Field Na			vveii Status	Total Depth (IIKB) Primary Job Type					
43013512420	000	U	T	Duchesne	Black Tail Ridge	dge PRODUCING 8,868.0 Drilling & Completion						
ime Log												
Start Time Du	ır (hr) E	nd Time	Code	Category		Com						
06:00	00	6:00	SMTG	Safety Meeting		HES AOL 03:45. STRAP TANKS, PRIME UP CHEMS AND PUMPS, HSM- RED ZONE, PPE, EMERGENCY PLAN, PARKING.						
06:00				Frac. Job	FRAC ST PRESSU OPEN W BREAK E PMP 390 2703 PSI FLUSH W SHUT DO STAGE F PERFS C CONT FF STAGE T 3650 PSI STAGE T 3650 PSI STAGE T 3652 PSI STAGE T 3652 PSI STAGE T STA	G #1- CR-4, CR-4A, AND RE TEST LINES TO 9200 ELL W/ 570 PSI AT 04:41 DOWN 3961 PSI AT 9.5 BI 0 GAL 15% HCL ACID W/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/	PM. / 78 BIO BALLS FOR DIVERSION. 10.4 BPM AT T 3422 PSI. ATTEMPT BALL OUT. //AIT 5 MIN FOR BALLS TO FALL. DF 70.4 BPM AT 4800 PSI. ISDP 2553. FG .74. D PSI. (34/39 P/O) T 4545 PSI. T 0.0 BPM AT 4778 PSI. ON PERFS 70.2 BPM AT T 0.0 BPM AT 3735 PSI. ON PERFS 70.3 BPM AT T 0.2 BPM AT 3670 PSI. ON PERFS 70.2 BPM AT T 0.2 BPM AT 3670 PSI. ON PERFS 70.2 BPM AT T 0.2 BPM AT 3670 PSI. ON PERFS 70.2 BPM AT T 0.2 BPM AT 3670 PSI. ON PERFS 70.2 BPM AT T 0.2 BPM AT 3670 PSI. ON PERFS 70.2 BPM AT T 0.2 BPM AT 3670 PSI. ON PERFS 70.2 BPM AT T 0.2 BPM AT 3670 PSI. ON PERFS 70.2 BPM AT T 0.4 BPM AT 3670 PSI. ON PERFS 70.2 BPM AT T 0.5 BPM AT 3670 PSI. ON PERFS 70.2 BPM AT T 0.6 BPM AT 3670 PSI. ON PERFS 70.2 BPM AT T 0.7 BPM AT 3670 PSI. ON PERFS 70.2 BPM AT T 0.8 BPM AT 3670 PSI. ON PERFS 70.2 BPM AT T 0.9 BPM AT 367					
6:00	1.09 0	7:05	PFRT	Perforating	EQUALIZ RUN DO CR-4 FO	E 2550 PSI. OPEN WELL WN AND SET CBP AT 83	CBP AND GUNS FOR STAGE 2 INTO LUB AND LAND RIH. CORRELATE TO SJ AT 8280'-8302'. 194' WITH 2450 PSI. PULL UP AND PERF CR-3 ANI HOLES IN 12' NET. POOH AND VERIFY ALL GUNS S WITH 2400 PSI.					

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Time Lo		l = . =			
Start Time 07:05	Dur (hr)	End Time	FRAC	Category Frac. Job	Com
07.05	1.25	08:20	FRAC	riac. Job	FRAC STG #2- CR-3, AND CR-4 PERFS 8147'-8374' 36 HOLES IN 12' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 2378 PSI AT 07:15 BREAK DOWN 2980 PSI AT 9.8 BPM. PMP 3600 GAL 15% HCL ACID W/ 72 BIO BALLS FOR DIVERSION. 10.1 BPM AT 2810 PSI. FLUSH W/ 7955 GAL. 30.0 BPM AT 3525 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.4 BPM AT 4818 PSI. ISDP 2516. FG .74. PERFS OPEN 29/36. CONT FR PAD. 70.4 BPM AT 4710 PSI. STAGE HYBOR PAD 70.0 BPM AT 4818 PSI. STAGE HYBOR PAD 70.0 BPM AT 4818 PSI. STAGE TO 2 PPA 20/40 WHITE. 70.1 BPM AT 4778 PSI. ON PERFS 70.2 BPM AT 4052 PSI. STAGE TO 3 PPA 20/40 WHITE. 70.3 BPM AT 3908 PSI. ON PERFS 70.3 BPM AT 3814 PSI. ON 3# HAD A PUMP DOWN SHIFT (NOT SURE WHY) BRING RATE BACK UP THEN NET PRESSURES STARTED CLIMBING FAST. EXTENDED 3# THEN WENT TO FLUSH. FLUSH 70.9 BPM AT 4346 PSI. WSI WITH 2655 PSI. TURN OVER TO WIRELINE. ISIP 2663 FG .76 MAX PRES 4823 PSI AVE RATE 70.5 BPM AVE PRES 4068 PSI PMP 95,900 LBS 20/40 WHITE. 250 LBS SCALE SORB 3 SLK WTR 65.449 GAL 20# HYBOR G (16) 49,163 GAL
08:20	1.25	09:35	PFRT	Perforating	CLEAN FLUID 118,146 GAL BWTR 2813 BBLS PERF STG #3- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 3 INTO LUB AND
					EQUALIZE 2550 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7687'-7710'. RUN DOWN AND SET CBP AT 8138' WITH 2400 PSI. PULL UP AND PERF CR-2 AND CR-3 FORM 7887'-8118' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO HES WITH 2400 PSI.
09:35		10:50	FRAC	Frac. Job	FRAC STG #3- CR-2 AND CR-3 PERFS 7887'-8118' 45 HOLES IN 15' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 2332 PSI AT 09:40 BREAK DOWN 2960 PSI AT 9.9 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.4 BPM AT 2553 PSI. FLUSH W/ 7724 GAL. 30.1 BPM AT 3311 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.4 BPM AT 4524 PSI. ISDP 2449. FG .74. PERFS OPEN 31/45. CONT FR PAD. 70.3 BPM AT 4305 PSI. STAGE HYBOR PAD 70.0 BPM AT 4416 PSI. STAGE TO 2 PPA 20/40 WHITE. 70.0 BPM AT 4437 PSI. ON PERFS 70.1 BPM AT 4060 PSI. STAGE TO 3 PPA 20/40 WHITE. 70.2 BPM AT 3946 PSI. ON PERFS 70.2 BPM AT 3791 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 70.1 BPM AT 3725 PSI. ON PERFS 70.2 BPM AT 3645 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.2 BPM AT 3639 PSI. ON PERFS 70.2 BPM AT 3645 PSI. WSI WITH 2750 PSI. TURN OVER TO WIRELINE. ISIP 2753 MAX RATE 70.4 BPM MAX PRES 4444 PSI AVE RATE 70.2 BPM AVE PRES 3840 PSI PMP 149,900 LBS 20/40 WHITE. 250 LBS SCALE SORB 3 SLK WTR 65,045 GAL 20# HYBOR G (16) 62,115 GAL CLEAN FLUID 131,072 GAL DEEP STA #4. BUL EYEL IS 5.1/2" CBD AND CLUNS FOR STAGE 4 INTO LUB AND
10:50	1.16	12:00	PFRT	Perforating	PERF STG #4- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 4 INTO LUB AND EQUALIZE 2550 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7687'-7710'. RUN DOWN AND SET CBP AT 7868' WITH 2400 PSI. PULL UP AND PERF WASATCH AND CR-2 FORM 7625'-7848' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO HES WITH 1150 PSI.



Time Lo		le.ie	I 0 :		
	, ,				The state of the s
Start Time 12:00	Dur (hr) 1.34	End Time 13:20	FRAC	Frac. Job	FRAC STG #4- WASATCH AND CR-2 PERFS 7625'-7848' 45 HOLES IN 15' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 893 PSI AT 12:10 BREAK DOWN 2264 PSI AT 9.7 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.3 BPM AT 2182 PSI. FLUSH W/ 7445 GAL. 30.2 BPM AT 2981 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.4 BPM AT 3910 PSI. ISDP 1891. FG .68. PERFS OPEN 31/45. CONT FR PAD. 70.4 BPM AT 3613 PSI. (35/45 P/O) STAGE HYBOR PAD 70.0 BPM AT 3630 PSI. STAGE TO 2 PPA 20/40 WHITE. 69.8 BPM AT 3652 PSI. ON PERFS 70.1 BPM AT 3331 PSI. STAGE TO 3 PPA 20/40 WHITE. 70.1 BPM AT 3237 PSI. ON PERFS 70.2 BPM AT 3054 PSI.
					2956 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.1 BPM AT 2951 PSI. ON PERFS 70.1 BPM AT 2905 PSI. FLUSH 70.1 BPM AT 3501 PSI. WSI WITH 2250 PSI. TURN OVER TO WIRELINE.
					ISIP 2244 FG .73 MAX RATE 70.5 BPM MAX PRES 3680 PSI AVE RATE 70.1 BPM AVE PRES 3108 PSI PMP 149,900 LBS 20/40 WHITE. 250 LBS SCALE SORB 3 SLK WTR 60,830 GAL 20# HYBOR G (16) 62,111 GAL CLEAN FLUID 126,879 GAL BWTR 3021 BBLS
13:20	1.25	14:35	PFRT	Perforating	PERF STG #5- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 5 INTO LUB AND EQUALIZE 2000 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6314'-6335'. RUN DOWN AND SET CBP AT 7620' WITH 1700 PSI. PULL UP AND PERF CR-1 FORM 7377'-7601' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO HES WITH 1600 PSI.
14:35	1.41	16:00	FRAC	Frac. Job	FRAC STG #5- CR-1 PERFS 7377-7601' 45 HOLES IN 15' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 1360 PSI AT 14:40 BREAK DOWN 1825 PSI AT 9.8 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.4 BPM AT 1739 PSI. FLUSH W/ 7202 GAL. 30.4 BPM AT 2389 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.6 BPM AT 3359 PSI. ISDP 1858. FG .69. PERFS OPEN 39/45. CONT FR PAD. 70.4 BPM AT 3345 PSI. STAGE TO .75 PPA 100 MESH. 70.1 BPM AT 3280 PSI. ON PERFS 70.2 AT 3330 PSI. STAGE TO 1 PPA 20/40 WHITE. 70.1 BPM AT 3356 PSI. ON PERFS 70.0 BPM AT 3220 PSI. STAGE TO 2 PPA 20/40 WHITE. 70.1 BPM AT 3149 PSI. ON PERFS 70.1 BPM AT 3005 PSI. STAGE TO 3 PPA 20/40 WHITE. 70.2 BPM AT 2950 PSI. ON PERFS 70.3 BPM AT 2850 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 70.1 BPM AT 2853 PSI. ON PERFS 70.2 BPM AT 2812 PSI. STAGE TO 3 PPA 20/40 WHITE. 70.1 BPM AT 2829 PSI. ON PERFS 70.2 BPM AT 2812 PSI. STAGE TO 3 PPA 20/40 WHITE. 70.1 BPM AT 2829 PSI. ON PERFS 70.2 BPM AT 2812 PSI. STAGE TO 3 BPM AT 3459 PSI. WSI WITH 2250 PSI. TURN OVER TO WIRELINE. ISIP 2321 FG .75 MAX RATE 70.4 BPM AVE PRES 3363 PSI AVE PRES 3046 PSI PMP 14,600 LBS 100 MESH TOTAL PROP 174,700 LBS SLK WTR 67,178 GAL CLEAN FLUID 149,410 GAL BWTR 3557 BBLS



Time Lo	g				
Start Time	Dur (hr)	End Time	Code	Category	Com
16:00	1.25	17:15	PFRT	3	PERF STG #6- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 6 INTO LUB AND EQUALIZE 2000 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6314'-6335'. RUN DOWN AND SET CBP AT 7320' WITH 1800 PSI. PULL UP AND PERF CASTLE PEAK FORM 7112'-7349' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT WELL IN WITH 1350 PSI.
17:15	12.75	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.

4 ED 4E DED	5/20/2013 06:00		~~ ~~
/_KI_/K	6/70/7011 2 116:000	_ 6/37/31172	

API/UWI	State/Province	County	Field Name	Well Status		Primary Job Type
43013512420000	UT	Duchesne	Black Tail Ridge	PRODUCING	8,868.0	Drilling & Completion

			<i>,</i> ,	Ducheshe	Diack Tail Nage T NODOGING 0,000.0 Drilling & Completion
Time Log	9				
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00		06:00	SMTG	Safety Meeting	HES AOL AT 05:30. START EQUIP. PRIME UP CHEMS AND PUMPS. RUN QC ON FLUID. HSM- PARKING, HIGH PRESSURE, REDZONE, SMOKING.
06:00				Frac. Job	FRAC STG #6- CASTLE PEAK PERFS 7112'-7349' 45 HOLES IN 15' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 933 PSI AT 06:05 BREAK DOWN 2575 PSI AT 9.5 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.4 BPM AT 1880 PSI. FLUSH W/ 6944 GAL. 30.1 BPM AT 2651 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.4 BPM AT 3295 PSI. ISDP 1802. FG .69. PERFS OPEN 39/45. CONT FR PAD. 70.4 BPM AT 3173 PSI. STAGE TO .75 PPA 100 MESH. 70.3 BPM AT 3170 PSI. ON PERFS 70.2 AT 3245 PSI. STAGE TO 1 PPA 20/40 WHITE. 70.1 BPM AT 3257 PSI. ON PERFS 70.1 BPM AT 3148 PSI. STAGE TO 2 PPA 20/40 WHITE. 70.2 BPM AT 3098 PSI. ON PERFS 70.1 BPM AT 2905 PSI. STAGE TO 3 PPA 20/40 WHITE. 70.1 BPM AT 2884 PSI. ON PERFS 70.1 BPM AT 2759 PSI. STAGE TO 3.5 PPA 20/40 WHITE. 70.1 BPM AT 2824 PSI. ON PERFS 70.0 BPM AT 2822 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.1 BPM AT 2846 PSI. ON PERFS 70.0 BPM AT 2881 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.1 BPM AT 2846 PSI. ON PERFS 70.0 BPM AT 2881 PSI. FLUSH 70.2 BPM AT 3504 PSI. WSI WITH 1950 PSI. TURN OVER TO WIRELINE. ISIP 1985 FG .71 MAX RATE 70.5 BPM MAX PRES 3287 PSI AVE RATE 70.1 BPM AT PSI S2974 PSI HAVE RATE 70.1 BPM AND AVE PRES 2974 PSI HAVE RATE 70.1 BPM AND AVE PRES 2974 PSI HAVE RATE 70.1 BPM AND AVE PRES 2974 PSI HAVE RATE 70.1 BPM AND AVE PRES 2974 PSI HAVE RATE 70.1 BPM AVE PRES 2974 PSI HAVE PRES 2974 PSI HAVE RATE 70.1 BPM AVE PRES 2974 PSI HAVE PS
07:20	1.17	08:30	PFRT	Perforating	PERF STG #7- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 7 INTO LUB AND EQUALIZE 1700 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6314'-6335'. RUN DOWN AND SET CBP AT 7100' WITH 1550 PSI. PULL UP AND PERF BLACK SHALE FORM 6791'-7080' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN OVER TO HES WITH 1350 PSI.

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4301351	2420000	Į	JT		Duchesne	Black Ta	ail Ridge	PRODUCING			8,868.0 Dri	lling & Completion
API/UWI	2420000		state/Provinc	е	County	Field Nam		Well Status		Total Depth (ftKl		nary Job Type
4-5D-	45 BTR	5/22/	/2013	06:00	- 5/23/201	3 06:0	0					
18:00	12.00	06:00	LOCL	Lock W	ellhead & Secure		CREW TR	RAVEL WELL SECUR	E.			
							SWIVEL I 28/64 CH					2 7620'. FCP- 600 ON WELL OVER TO
							28/64 CH	OKE. IN HOLE. TAG SAND				⊋ 7369'. FCP- 600 ON
								PLUG @ 6740'. FCP-IN HOLE. TAG SAND				② 7100'. FCP- 750 ON
17.50	3.00	10.00	1001.0	Join Ou	r iugs		HELD.	LIX OVVIVEL. DIVERN	Onto. I	LOT OING	-∝on wi⊑ivi C	. DOI L 10 2000 FOI,
11:00 14:30		14:30 18:00	RUTB	Run Tu Drill Ou			KILL PLU	BIT, POBS, 1 JT 2-7/8 G @ 6740' 'ER SWIVEL. BREAK				
							CATWAL	K & PIPE RACKS. LOA	AD 286	JTS ON RAG	CKS & TALLY	TBG.
07:00 08:00		08:00 11:00	SRIG BOPI	Rig Up/ Install E				& EQUIPMENT. N/D FRAC TREE. N/U	I R∩D ♀	HAUbiii	R/II FI OOP 9	FOLUPMENT SPOT
06:00		07:00	CTRL	Crew T	Category ravel		CREW TR	RAVEL. HOLD SAFET	Y MEET			
Time Lo	g									Com		
API/UWI 4301351	2420000		state/Provinc	е	County Duchesne	Field Nam	e ail Ridge	Well Status PRODUCING		Total Depth (ftKl		nary Job Type Iling & Completion
4-5D-	45 BTR	5/21/	/2013	06:00	- 5/22/201	3 06:0						
14:00		06:00	GOP		l Operations			IUT IN AND SECURE.	. SPOT	TANK FOR I	RIG. STACK V	VTR. MOVE TANKS
11:00	3.00	14:00	SRIG	Rig Up/	Down			LL AS POOH. SHUT IN	N AND S	SECURE WE	LL.	
09:45	1.24	11:00	WLWK	Wireline)		RIH. COR	EXELIS PLUG AND S	314'-633	85'. SET KILI	L PLUG AT 67	
							CONT FR STAGE T PSI. STAGE T 3205 PSI. STAGE T 2782 PSI. STAGE T 2627 PSI. STAGE T 2807 PSI. FLUSH 7' WSI WITH ISIP 1914 MAX RAT AVE RAT PMP 13,4 TOTAL P SLK WTF	R PAD. 70.4 BPM AT 3 O .75 PPA 100 MESH O 1 PPA 20/40 WHITE O 2 PPA 20/40 WHITE O 3 PPA 20/40 WHITE O 3.5 PPA 20/40 WHITE O 4 PPA 20/40 WHITE D.2 BPM AT 3242 PSI. H 1887 PSI. TURN OV	E. 70.2 B E. 70.1 E E. 70.1 E E. 70.1 E ITE. 70.1 E. 70.2 E . VER TO	PM AT 3174 BPM AT 315 BPM AT 288 I BPM AT 262 WIRELINE. FG .71 PRES 3330 PRES 2954 140,300 250 LBS HYBOR G (1	Í PSI. ON PER 9 PSI. ON PEI 5 PSI. ON PEI 5 PSI. ON PEI 713 PSI. ON P 0 PSI. ON PEI	RFS 70.1 BPM AT RFS 70.1 BPM AT RFS 70.2 BPM AT ERFS 70.3 BPM AT RFS 70.3 BPM AT
							OPEN WI BREAK D PMP 3900 1721 PSI. FLUSH W SHUT DC STAGE F	RE TEST LINES TO 9: ELL W/ 1321 PSI AT 0 IOWN 1968 PSI AT 9.6 O GAL 15% HCL ACID OWN PMP. 30.2 BPN OWN PMP. SURGE 3X R PAD. STABLE RATI IPEN 31/45.	08:36 8 BPM. 0 W/ 90 E M AT 212 (. WAIT	BIO BALLS I 25 PSI. ATT 5 MIN FOR	EMPT BALL C BALLS TO FA	OUT. LL.
Start Time 08:30	Dur (hr) 1.25	End Time 09:45	FRAC	Frac. Jo	Category			G #7- BLACK SHALE			45 HOLES IN	15' NET.
Time Lo												
	,											

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Time Lo	g				
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	4.00	11:00	DOPG	Drill Out Plugs	FCP- 550 ON 24/64 CHOKE. SWIVEL IN HOLE, TAG SAND @ 7723'. BREAK CIRC. C/O SAND & D/O CBP @ 7868'. FCP- 650 ON 28/64 CHOKE.
					SWIVEL IN HOLE. TAG SAND @ 8122'. C/O SAND & D/O CBP @ 8138'. FCP- 650 0N 30/64 CHOKE.
					SWIVEL IN HOLE. TAG SAND @ 8381'. C/O SAND & D/O CBP @ 8394'. FCP- 800 0N 30/64 CHOKE.
					SWIVEL IN HOLE, TAG SAND @ 8674'. C/O TO FLOAT COLLAR @ 8767'. D/O F/C. D/O CMT TO 8836' PBTD. JT 277 ALL THE WAY IN. CIRC WELL CLEAN. PUMPED 350 BBLS TOTAL. R/D SWIVEL
11:00	1.00	12:00	PULT	Pull Tubing	PULL ABOVE PERFS L/D 2-7/8 TBG TO 6712' & LAND TBG. 210 JTS TOTAL IN HOLE.
12:00	1.50	13:30	IWHD	Install Wellhead	R/D FLOOR. N/D BOPE. N/U WELLHEAD. DROP BALL DOWN TBG & PUMPED BIT OFF. R/U TO SALES LINE. TURN OVER TO FLOW BACK.
13:30	2.00	15:30	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. SDFN.
15:30	14.50	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. TBG FLOWING TO SALES.

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Division of Oil, Gas and Mining

Operator Change/Name Change Worksheet-for State use only

Effective Date:

11/1/2016

FORMER OPERATOR:	NEW OPERATOR:
Bill Barrett Corporation	Rig II, LLC
1099 18th Street, Suite 2300	1582 West 2600 South
Denver, CO 80202	Woods Cross, UT 84087
CA Number(s):	Unit(s):

WELL INFORMATION:

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

OPERATOR CHANGES DOCUMENTATION:

1. Sundry or legal documentation was received from the **FORMER** operator on:

10/21/2016

2. Sundry or legal documentation was received from the NEW operator on:

10/21/2016

3. New operator Division of Corporations Business Number:

8256968-0160

REVIEW:

1. Surface Agreement Sundry from NEW operator on Fee Surface wells received on:

N/A

2. Receipt of Acceptance of Drilling Procedures for APD on:

10/21/2016

3. Reports current for Production/Disposition & Sundries:

11/2/2016

4. OPS/SI/TA well(s) reviewed for full cost bonding:

11/3/2016

5. UIC5 on all disposal/injection/storage well(s) approved on:

11/3/2016

6. Surface Facility(s) included in operator change:

None

7. Inspections of PA state/fee well sites complete on (only upon operators request):

11/3/2016

NEW OPERATOR BOND VERIFICATION:

1. Federal well(s) covered by Bond Number:

UTB000712

2. Indian well(s) covered by Bond Number:

LPM 922467

3.State/fee well(s) covered by Bond Number(s):

9219529

DATA ENTRY:

1. Well(s) update in the OGIS on:

11/7/2016

2. Entity Number(s) updated in OGIS on:

11/7/2016

3. Unit(s) operator number update in OGIS on:

N/A

4. Surface Facilities update in OGIS on:

N/A

5. State/Fee well(s) attached to bond(s) in RBDMS on:

11/7/2016

6. Surface Facilities update in RBDMS on:

N/A

COMMENTS:

Well Name	Sec	TWN	RNG	API Number	Entity	Mineral	Surface	Туре	Status
SWD 9-36 BTR	9	0308	060W	4301350646	18077	Indian	Fee	WD	Α
16-6D-46 BTR SWD	6	040S	060W	4301350781	18327	Indian	Fee	WD	Α
6-32-36 BTR SWD	32	030S	060W	4301350921	18329	Indian	Fee	WD	Α
LC TRIBAL 8-26D-47	26	040S	070W	4301334024		Indian	Indian	OW	APD
16-21D-37 BTR	21	030S	070W	4301350758		Indian	Fee	OW	APD
14-11D-37 BTR	11	030S	070W	4301350862		Indian	Fee	OW	APD
7-17D-46 BTR	17	040\$	060W	4301350883		Indian	Indian	OW	APD
14-12D-37 BTR	12	030S	070W	4301350894		Indian	Fee	OW	APD
1-18D-36 BTR	18	030S	060W	4301350922		Indian	Fee	OW	APD
13-2D-45 BTR	2	040S	050W	4301350931		Indian	Indian	OW	APD
5H-16-46 BTR	16	040S	060W	4301350992		Indian	Indian	OW	APD
9H-17-45 BTR	17	040S	050W	4301351098		Indian	Indian	OW	APD
13H-8-46 BTR UB	8	040S	060W	4301351124		Indian	Indian	OW	APD
BH-9-46 BTR	9	040S	060W	4301351140		Indian	Indian	ow	APD
_C TRIBAL 7-31D-37	31	030S	070W	4301351147		Indian	Fee	ow	APD
14-16D-45 BTR	16	040S	050W	4301351178		Indian	Indian	ow	APD
16-19D-37 BTR	19	030S	070W	4301351179		Indian	Fee	OW	APD
6-2D-45 BTR	2	040S	050W	4301351234		Indian	Indian	ow	APD
2-2D-45 BTR	2	040S	050W	4301351235		Indian	Indian	ow	APD
10-26-35 BTR	26	030S	050W	4301351248		Indian	Fee	OW	APD
C TRIBAL 1H-33-46	33	040S	060W	4301351257		Indian	Fee	ow	APD
_C TRIBAL 9-25D-46	25	040S	060W	4301351276		Indian	Indian	ow	APD
C TRIBAL 8H-30-45	30	040S	050W	4301351277	(8.7)	Indian	Indian	OW	APD
_C TRIBAL 16H-30-45	30	040S	050W	4301351279		Indian	Indian	OW	APD
_C TRIBAL 13-30D-45	30	040S	050W	4301351282		Indian	Indian	ow	APD
_C TRIBAL 16H-36-46	36	040S	060W	4301351291		Indian	Indian	OW	APD
C TRIBAL 13H-30-46	30	040S	060W	4301351321		Indian	Indian	OW	APD
C TRIBAL 13H-31-46	31	040S	060W	4301351326		Indian	Indian	OW	APD
_C TRIBAL 16-31D-46	31	040S	060W	4301351328		Indian	Indian	OW	APD
C TRIBAL 5H-26-47	26	040S	070W	4301351337		Indian	Indian	OW	APD
_C TRIBAL 5H-19-45	20	040S	050W	4301351349		Indian	Indian	OW	APD
C TRIBAL 16-36D-47	36	040S	070W	4301351363		Indian	Indian	OW	APD
15-4D-47 BTR	4	040S	070W	4301351377		Indian	Fee	OW	APD
16-23D-46 LC TRIBAL	23	040S	060W	4301351396		Indian	Fee	ow	APD
15-2D-36 BTR	2	030S	060W	4301351419		Indian	Fee	OW	APD
16-23D-37 BTR	23	030S	070W	4301351420	1	Indian	Fee	ow	APD
11-9D-47 BTR	9	040S	070W	4301351422		Indian	Fee	OW	APD
15-13D-47 BTR	13	040S	070W	4301351424		Indian	Indian	OW	APD
_C TRIBAL 15-19D-46	19	040S	060W	4301351426		Indian	Indian	OW	APD
16-13D-45 BTR	13	040S	050W	4301351428		Indian	Indian	OW	APD

14-12D-45 BTR	12	040S	050W	4301351444	Indian	Indian	OW	APD
16-14D-45 BTR	14	040S	050W	4301351445	Indian	Indian	OW	APD
5-13D-45 BTR	13	040S	050W	4301351446	Indian	Indian	OW	APD
LC TRIBAL 16-26D-46	26	040S	060W	4301351450	Indian	State	OW	APD
LC TRIBAL 10-20D-40	34	0408	060W	4301351451				
16-12D-45 BTR	12	040S	050W	4301351451	Indian Indian	State Indian	OW	APD
8-12D-45 BTR	12	040S	050W	4301351452			OW	APD
LC TRIBAL 1-35D-46	35	040S	060W		Indian	Indian	OW	APD
16-25D-37 BTR		0405	070W	4301351454	Indian	Fee	OW	APD
LC TRIBAL 13H-29-46	25			4301351455	Indian	Fee	OW	APD
	28	0408	060W	4301351462	Indian	Fee	OW	APD
LC TRIBAL 14-30D-37	30	0308	070W	4301351494	Indian	Fee	OW	APD
7-13D-45 BTR	13	0408	050W	4301351497	Indian	Indian	OW	APD
LC TRIBAL 4H-35-46	35	0408	060W	4301351515	Indian	Fee	OW	APD
LC TRIBAL 13H-19-46	19	040\$	060W	4301351543	Indian	Indian	OW	APD
16-26D-37 BTR	26	030S	070W	4301351598	Indian	Fee	OW	APD
LC TRIBAL 16-31D-37	31	030\$	070W	4301351610	Indian	Fee	OW	APD
5-4-35 BTR	4	030S	050W	4301351613	Indian	Fee	OW	APD
LC TRIBAL 16-31D-47	31	040S	070W	4301351616	Indian	Indian	OW	APD
LC TRIBAL 13H-31-47	31	040S	070W	4301351617	Indian	Indian	OW	APD
LC TRIBAL 13-32D-47	32	040S	070W	4301351619	Indian	Indian	OW	APD
LC TRIBAL 16H-32-47	32	040S	070W	4301351620	Indian	Indian	OW	APD
LC TRIBAL 1-32D-47	32	040S	070W	4301351624	Indian	Indian	OW	APD
LC TRIBAL 4H-32-47	32	040S	070W	4301351625	Indian	Indian	OW	APD
LC TRIBAL 13-28D-47	28	040S	070W	4301351627	Indian	Indian	OW	APD
LC TRIBAL 13H-29-47	28	040S	070W	4301351628	Indian	Indian	OW	APD
LC TRIBAL 16H-28-47	28	040S	070W	4301351629	Indian	Indian	OW	APD
LC TRIBAL 1-28D-47	28	040S	070W	4301351639	Indian	Indian	OW	APD
LC TRIBAL 1H-27-47	28	040S	070W	4301351640	Indian	Indian	OW	APD
LC TRIBAL 4H-28-47	28	040S	070W	4301351641	Indian	Indian	OW	APD
LC TRIBAL 7-25D-58	25	050S	W080	4301351643	Indian	Indian	OW	APD
LC TRIBAL 6-25D-58	25	050S	080W	4301351644	Indian	Indian	OW	APD
LC TRIBAL 13H-24-58	24	050S	W080	4301351645	Indian	Indian	OW	APD
LC TRIBAL 16-24D-58	24	050S	080W	4301351646	Indian	Indian	OW	APD
LC Tribal 8-23D-46	23	040S	060W	4301351654	Indian	Fee	OW	APD
LC Tribal 16-35D-45	35	040S	050W	4301351656	Indian	Fee	OW	APD
LC Tribal 13H-35-45	35	040S	050W	4301351657	Indian	Fee	ow	APD
LC Tribal 16-36D-45	36	040S	050W	4301351658	Indian	Fee	ow	APD
LC Tribal 13H-36-45	36	040S	050W	4301351659	Indian	Fee	OW	APD
LC Tribal 5-36D-45	36	040S	050W	4301351661	Indian	Fee	OW	APD
LC Tribal 8-26D-46	26	040\$	060W	4301351663	Indian	Fee	OW	APD
3-29D-36 BTR	29	0308	060W	4301351665	Indian	Fee	OW	APD

LC Tribal 5-35D-45	35	040S	050W	4301351666	Indian	Fee	OW	APD
_C Tribal 5-24D-46	24	0408	060W	4301351668	Indian	Indian	ow	APD
_C TRIBAL 6-12D-58	12	0508	080W	4301351696	Indian	Indian	OW	APD
LC TRIBAL 8-12D-58	12	050S	080W	4301351697	Indian	Indian	OW	APD
.C TRIBAL 16H-22-47	21	040S	070W	4301351700	Indian	Indian	OW	APD
5-25D-37 BTR	25	030S	070W	4301351803	Indian	Fee	OW	APD
8-3D-36 BTR	3	0308	060W	4301351804	Indian	Fee	OW	APD
14-26D-37 BTR	26	0308	070W	4301351805	Indian	Fee	OW	APD
9-4-35 BTR	4	0308	050W	4301351806	Indian	Fee	ow	APD
11-4D-35 BTR	4	030S	050W	4301351807	Indian	Fee	OW	APD
16-27D-37 BTR	27	0308	070W	4301351808	Indian	Fee	OW	APD
14-27D-37 BTR	27	0308	070W	4301351809	Indian	Fee	OW	APD
14-16D-46 BTR	16	040S	060W	4301351812	Indian	Indian	OW	APD
_C Tribal 16-35D-48	35	040S	080W	4301351847	Indian	Indian	OW	APD
LC Tribal 13H-35-48	35	040S	080W	4301351848	Indian	Indian	OW	APD
_C Tribal 13-2D-58	11	050S	080W	4301351850	Indian	Indian	OW	APD
5-13D-36 BTR	13	0308	060W	4301351862	Indian	Fee	OW	APD
5-8D-36 BTR	8	0308	060W	4301351871	Indian	Fee	OW	APD
16-1D-36 BTR	1	0308	060W	4301351872	Indian	Fee	ow	APD
3-18D-46 BTR	18	040S	060W	4301351897	Indian	Fee	OW	APD
_C Tribal 5-36D-46	36	0408	060W	4301351905	Indian	Indian	OW	APD
LC Tribal 5-26D-45	26	040S	050W	4301351907	Indian	Indian	OW	APD
14-13D-45 BTR	13	040S	050W	4301351974	Indian	Indian	OW	APD
14-34D-46 DLB	34	040S	060W	4301351975	Indian	Fee	OW	APD
LC Tribal 5-21D-45	21	0408	050W	4301352001	Indian	Indian	OW	APD
_C Tribal 8-22D-45	22	0408	050W	4301352002	Indian	Indian	OW	APD
_C Tribal 8-25D-45	25	0408	050W	4301352007	Indian	Indian	OW	APD
LC Tribal 16-25D-45	25	040S	050W	4301352008	Indian	Indian	OW	APD
LC Tribal 16-22D-45	22	040S	050W	4301352009	Indian	Indian	OW	APD
LC Tribal 16-26D-45	26	040S	050W	4301352010	Indian	Indian	OW	APD
LC Tribal 14-31D-37	31	0308	070W	4301352016	Indian	Fee	OW	APD
5-12D-45 BTR	12	040S	050W	4301352030	Indian	Indian	ow	APD
LC Tribal 9-20D-45	20	040S	050W	4301352031	Indian	Indian	OW	APD
LC Tribal 13-35D-47	35	0408	070W	4301352055	Indian	Indian	ow	APD
C Tribal 1-23D-47	23	040S	070W	4301352057	Indian	Indian	ow =	APD
9-17D-46 BTR	17	040S	060W	4301352059	Indian	Indian	OW	APD
11-18D-46 BTR	18	040S	060W	4301352060	Indian	Indian	OW	APD
9-10D-47 BTR	10	0408	070W	4301352092	Indian	Fee	OW	APD
LC Tribal 1-17D-47	17	0408	070W	4301352096	Indian	Fee	OW	APD
7-35D-37 BTR	35	0308	070W	4301352115	Indian	Fee	OW	APD
14-25D-37 BTR	25	0308	070W	4301352116	Indian	Fee	OW	APD

LC Tribal 5-25-46	25	040S	060W	4301352126	Indian	Indian	OW	APD
8-33D-35 BTR	33	030S	050W	4301352161	Indian	Fee	OW	APD
5-4D-36 BTR	4	030S	060W	4301352175	Indian	Fee	OW	APD
'-4D-36 BTR	4	030S	060W	4301352176	Indian	Fee	OW	APD
C Tribal 4-36D-47	36	040S	070W	4301352186	Indian	Indian	OW	APD
.C Tribal 4-22D-46	22	040S	060W	4301352944	Indian	Indian	OW	APD
.C Tribal 16-22D-46	22	040S	060W	4301352945	Indian	Indian	OW	APD
.C Tribal 11-19D-46	19	040S	060W	4301352946	Indian	Indian	OW	APD
.C Tribal 7-20D-45	20	040S	050W	4301352947	Indian	Indian	OW	APD
5-11D-35 BTR	11	030S	050W	4301353056	Indian	Fee	OW	APD
3-11D-35 BTR	11	030S	050W	4301353057	Indian	Fee	OW	APD
3TR 16-36D-37	36	030S	070W	4301353059	Indian	Fee	OW	APD
I-29D-35 BTR	30	030S	050W	4301353060	Indian	Fee	ow	APD
-30D-35 BTR	30	030S	050W	4301353061	Fee	Fee	OW	APD
C TRIBAL 3-23D-46	23	040S	060W	4301353066	Indian	State	ow	APD
C Tribal 14-23D-46	23	040S	060W	4301353067	Indian	State	OW	APD
.C Tribal 13-25D-46	25	040S	060W	4301353068	Indian	Indian	OW	APD
C Tribal 14-26D-46	26	040S	060W	4301353069	Indian	State	OW	APD
C Tribal 5-26D-46	26	040S	060W	4301353070	Indian	State	OW	APD
C Tribal 11-35D-45	35	040S	050W	4301353071	Indian	State	OW	APD
C Tribal 7-35D-45	35	040S	050W	4301353072	Indian	State	OW	APD
C Tribal 3-35D-45	35	040S	050W	4301353075	Indian	State	OW	APD
C Tribal 14-36D-45	36	040S	050W	4301353076	Indian	State	OW	APD
C Tribal 13-36D-45	36	040S	050W	4301353077	Indian	State	OW	APD
C Tribal 10-36D-45	36	040S	050W	4301353078	Indian	State	OW	APD
.C Tribal 8-36D-45	36	040S	050W	4301353079	Indian	State	OW	APD
.C Tribal 6-36D-45	36	040S	050W	4301353080	Indian	State	OW	APD
.C Tribal 1-34D-46	34	040S	060W	4301353081	Indian	State	OW	APD
.C Tribal 9-27D-46	27	040S	060W	4301353082	Indian	State	OW	APD
.C Tribal 13-35D-45	35	040S	050W	4301353083	Indian	State	OW	APD
C Tribal 8-35D-45	35	040S	050W	4301353084	Indian	State	OW	APD
.C Tribal 15-35D-45	35	040S	050W	4301353085	Indian	State	OW	APD
C Tribal 12-25D-45	25	040S	050W	4301353122	Indian	Indian	OW	APD
C Tribal 14-25D-45	25	040S	050W	4301353123	Indian	Indian	OW	APD
C Tribal 10-25D-45	25	040S	050W	4301353124	Indian	Indian	ow	APD
C Tribal 11-26-45	26	040S	050W	4301353125	Indian	Indian	OW	APD
C Tribal 13-26D-45	26	040S	050W	4301353126	Indian	Indian	OW	APD
C Tribal 7-31D-46	31	040S	060W	4301353127	Indian	Indian	OW	APD
.C Tribal 7-19D-45	19	040S	050W	4301353128	Indian	Indian	OW	APD
.C Tribal 5-19D-45	19	040S	050W	4301353130	Indian	Indian	OW	APD
.C Tribal 7-25D-46	25	040S	060W	4301353132	Indian	Indian	OW	APD

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_C Tribal 7-24D-46	24	0408	060W	4301353134		Indian	Indian	OW	APD
.C Tribal 14-31D-46	31	040S	060W	4301353135		Indian	Indian	OW	APD
C Tribal 14-30D-46	30	040S	060W	4301353136		Indian	Indian	OW	APD
13-4-35 BTR SWD	4	030S	050W	4301353293		Fee	Fee	OW	APD
.C FEE 14-26D-47	26	040S	070W	4301353294	1	Fee	Indian	OW	APD
C Fee 5-25D-47	25	040S	070W	4301353295		Fee	Indian	OW	APD
7-35-46 LC SWD	35	040S	060W	4301353296		Fee	Fee	OW	APD
.C Fee 1H-33-47	32	040S	070 W	4301353309		Fee	Indian	ow	APD
_C FEE 14-2D-58	2	050S	W080	4301353312		Fee	Indian	OW	APD
C FEE 13H-21-47	21	040S	070W	4301353313		Fee	Indian	OW	APD
C Fee 16-21D-47	21	040S	070W	4301353326		Fee	Indian	OW	APD
6-7D-46 BTR	7	040S	060W	4301353328		Fee	Indian	OW	APD
C Fee 15-26D-47	26	040S	070W	4301353331		Fee	Indian	OW	APD
.C Fee 4-24D-47	23	040S	070W	4301353332		Fee	Indian	OW	APD
.C Fee 5-34D-47	34	040S	070W	4301353333		Fee	Indian	OW	APD
.C Fee 5-35D-47	35	040S	070W	4301353334	:	Fee	Indian	OW	APD
3-34D-47 LC Fee	34	040S	070W	4301353337		Fee	Indian	OW	APD
4-35D-35 BTR	35	030S	050W	4301352120		Fee	Fee	OW	DRL
-17D-46 BTR	17	040S	060W	4301351078		Indian	Indian	OW	OPS
-34D-35 BTR	34	030S	050W	4301351187		Indian	Fee	OW	OPS
5-10D-45 BTR	10	040S	050W	4301351221		Indian	Indian	OW	OPS
-3D-45 BTR	3	040S	050W	4301351810		Indian	Indian	OW	OPS
-34D-35 BTR	34	030S	050W	4301352117		Fee	Fee	OW	OPS
-35D-35 BTR	35	030S	050W	4301352118		Fee	Fee	OW	OPS
-2D-46 BTR	2	040S	060W	4301353086		Indian	Fee	OW	OPS
'-21-46 DLB	21	040S	060W	4301333567	16526	Indian	Indian	OW	P
.C TRIBAL 1H-27-46	27	040S	060W	4301333568	18175	Indian	Fee	GW	P
'-29-46 DLB	29	040S	060W	4301333584	17603	Indian	Fee	GW	P
C TRIBAL 12H-28-46	28	0408	060W	4301333631	18132	Indian	Indian	GW	P
.C TRIBAL 13H-21-46	21	0408	060W	4301333632	18107	Indian	Indian	GW	 P
2-36-36 BTR	36	030S	060W	4301333638	16336	Indian	Fee	GW	P
i-5-46 BTR	5	0408	060W	4301333639	16542	Indian	Fee	OW	P
5-23-36 BTR	23	0308	060W	4301333642	16675	Indian	Fee	GW	P
4-29-36 BTR	29	0308	060W	4301333643	16725	Indian	Fee	ow	P
4-30-36 BTR	30	0308	060W	4301333644	16701	Indian	Fee	GW	<u>'</u>
'-20-46 DLB	20	040S	060W	4301333657	16584	Indian	Indian	OW	'P
.C TRIBAL 5-21D-46	21	0408	060W	4301333658	18887	Indian	Indian	OW	P
-20-46 DLB	20	0408	060W	4301333659	18750	Indian	Indian	GW	P
.C TRIBAL 13H-20-46	20	0408	060W	4301333678	17979	Indian	Indian	GW	P
14-7-46 BTR	7	0408	060W	4301333806	16890	Indian	Indian	GW	P
	1.	0.00	100011	TOO OOOOOO	10000	HIMIAII	HIGHAIL	UVV	1 1-1

1-5-45 BTR	5	040S	050W	4301333868	16931	Indian	Indian	OW	Р
5-16-36 BTR	16	030S	060W	4301333970	17195	Indian	Fee	ow	P
5-29-36 BTR	29	0308	060W	4301333972	17557	Indian	Fee	OW	P
4-30-36 BTR	30	030S	060W	4301333973	17249	Indian	Fee	OW	P
7-19-46 DLB	19	040S	060W	4301334004	19018	Indian	Indian	OW	Р
5-25-36 BTR	25	030S	060W	4301334021	17126	Fee	Fee	OW	P
5-4-45 BTR	4	0408	050W	4301334089	17507	Indian	Indian	oW	Р
13-2-46 BTR	2	040S	060W	4301334090	18618	Indian	Indian	ow	Р
2-3-45 BTR	3	040S	050W	4301334099	17932	Indian	Indian	OW	Р
7-6-45 BTR	6	040S	050W	4301334100	17653	Indian	Indian	OW	Р
1-9-45 BTR	9	0408	050W	4301334101	17910	Indian	Indian	OW	Р
8-10-45 BTR	10	040S	050W	4301334102	17530	Indian	Indian	ow	Р
7-17-45 BTR	17	040S	050W	4301334104	17933	Indian	Indian	OW	Р
16-7-45 BTR	7	040S	050W	4301334111	17665	Indian	Indian	OW	Р
15-18-45 BTR	18	040S	050W	4301334112	17832	Indian	Indian	ow	P
6-12-46 BTR	12	0408	060W	4301334114	17964	Indian	Indian	ow	P
5-13-46 BTR	13	040S	060W	4301334115	17833	Indian	Indian	OW	Р
16-26-36 BTR	26	030S	060W	4301334132	18028	Indian	Fee	ow	P
1-23-36 BTR	23	030S	060W	4301334136	17722	Indian	Fee	OW	Р
15-10-36 BTR	10	030S	060W	4301334277	17419	Indian	Fee	ow	Р
14-5-46 BTR	5	040S	060W	4301350307	17624	Fee	Fee	ow	Р
14X-22-46 DLB	22	040S	060W	4301350351	17604	Indian	Indian	ow	Р
16-13-36 BTR	13	030S	060W	4301350372	17853	Indian	Fee	ow	Р
5-33-46 DLB	33	040S	060W	4301350397	17765	Indian	Fee	OW	Р
5-34-46 DLB	34	040S	060W	4301350415	17801	Indian	State	GW	Р
LC FEE 12H-32-46	32	040S	060W	4301350431	18003	Fee	Fee	OW	Р
1-13D-47 BTR	13	040S	070W	4301350445	18205	Indian	Fee	OW	Р
16-8D-45 BTR	8	040S	050W	4301350466	18799	Indian	Indian	OW	Р
7-13D-46 BTR	13	040S	060W	4301350470	18076	Indian	Indian	OW	Р
14-8D-45 BTR	8	040S	050W	4301350567	18207	Indian	Indian	OW	Р
14-5D-45 BTR	5	040S	050W	4301350568	18108	Indian	Indian	OW	Р
16-31D-36 BTR	31	030S	060W	4301350573	18004	Indian	Fee	OW	P
5-7D-46 BTR	7	040S	060W	4301350574	18176	Indian	Indian	OW	Р
LC TRIBAL 13H-33-46	34	040S	060W	4301350575	18223	Indian	State	OW	Р
5-8-45 BTR	8	040S	050W	4301350607	18279	Indian	Indian	OW	Р
16-6D-45 BTR	6	040S	050W	4301350610	18177	Indian	Indian	OW	P
5-18D-45 BTR	18	040S	050W	4301350611	18300	Indian	Indian	OW	Р
7-26-37 BTR	26	030\$	070W	4301350641	18131	Indian	Fee	OW	Р
3-11D-36 BTR	11	030S	060W	4301350642	18299	Indian	Fee	OW	Р
16-1D-46 BTR	1	040S	060W	4301350675	18525	Indian	Indian	ow	Р
14-3-45 BTR	3	040S	050W	4301350676	18363	Indian	Indian	ow	Р

4-17D-45 BTR	17	040S	050W	4301350687	18517	Indian	Indian	OW	Р
5-6D-45 BTR	6	040S	050W	4301350688	18726	Indian	Indian	OW	P
7-7D-45 BTR	7	040S	050W	4301350689	18380	Indian	Indian	OW	P
14-10D-45 BTR	10	040S	050W	4301350754	18447	Indian	Indian	OW	P
14-9D-45 BTR	9	040S	050W	4301350755	18379	Indian	Indian	OW	P
13-16D-36 BTR	16	030S	060W	4301350757	18206	Indian	State	OW	Р
5-9D-36 BTR	9	030S	060W	4301350843	18381	Indian	Fee	OW	P
16-5D-46 BTR	5	040S	060W	4301350844	18280	Fee	Fee	OW	Р
5-27D-37 BTR	27	030S	070W	4301350847	18526	Indian	Fee	OW	Р
7-4D-45 BTR	4	040S	050W	4301350884	18562	Indian	Indian	OW	Р
2-16D-45 BTR	16	040S	050W	4301350899	18619	Indian	Indian	OW	Р
16-10D-45 BTR	10	040S	050W	4301350902	18725	Indian	Indian	OW	P
5-2D-36 BTR	2	030S	060W	4301350913	18886	Indian	Fee	ow	Р
13H-27-36 BTR	27	030S	060W	4301350918	18445	Indian	State	ow	Р
8-16D-46 BTR	16	040S	060W	4301350953	19027	Indian	Indian	OW	Р
16-16D-46 BTR	16	040S	060W	4301350956	19028	Indian	Indian	OW	Р
16-9D-45 BTR	9	040S	050W	4301350962	18662	Indian	Indian	OW	Р
14-31D-36 BTR	31	030S	060W	4301350973	18524	Indian	Fee	OW	Р
5-10D-36 BTR	10	030S	060W	4301350978	18989	Indian	Fee	OW	Р
1-32D-36 BTR	32	030S	060W	4301350979	18648	Indian	Fee	OW	Р
16-12D-36 BTR	12	030S	060W	4301350980	18748	Indian	Fee	ow	Р
2-18D-45 BTR	18	040S	050W	4301350991	18776	Indian	Indian	OW	Р
3-1-46 BTR	1	040S	060W	4301351017	18777	Indian	Fee	ow	Р
10-5-45 BTR	5	040S	050W	4301351062	18724	Indian	Indian	OW	Р
12-4D-45 BTR	4	040S	050W	4301351063	18813	Indian	Indian	ow	Р
1-10D-45 BTR	10	040S	050W	4301351064	18966	Indian	Indian	ow	Р
16-2D-46 BTR	2	040S	060W	4301351079	18830	Indian	Indian	OW	Р
9H-4-45 BTR	4	040S	050W	4301351092	18814	Indian	Indian	OW	Р
12-17-45 BTR	17	040S	050W	4301351097	18984	Indian	Indian	OW	Р
5-9D-46 BTR	9	040S	060W	4301351109	19313	Indian	Fee	OW	Р
14-9D-36 BTR	9	030S	060W	4301351144	19004	Indian	Fee	OW	Р
5-31D-36 BTR	31	030S	060W	4301351146	18691	Indian	Fee	OW	Р
4-9D-45 BTR	9	040S	050W	4301351157	18883	Indian	Indian	OW	Р
8-12D-46 BTR	12	040S	060W	4301351159	18911	Indian	Indian	OW	Р
LC TRIBAL 16-23D-47	23	040S	070W	4301351180	18617	Indian	Indian	OW	Р
14-7D-45 BTR	7	040S	050W	4301351222	18949	Indian	Indian	OW	Р
5-16D-45 BTR	16	040S	050W	4301351223	18987	Indian	Indian	OW	Р
4-5D-45 BTR	5	040S	050W	4301351242	18882	Indian	Indian	OW	P
LC TRIBAL 16H-19-45	19	0408	050W	4301351278	18627	Indian	Indian	OW	Р
LC TRIBAL 13-19D-45	19	040S	050W	4301351280	18628	Indian	Indian	OW	Р
LC TRIBAL 5-30D-45	30	040S	050W	4301351281	19448	Indian	Indian	OW	Р

LC TRIBAL 15-24D-46	24	040S	060W	4301351283	18626	Indian	Indian	OW	Р
LC TRIBAL 13H-24-46	19	040S	050W	4301351289	18629	Indian	Indian	ow	Р
7-16-47 BTR	16	040S	070W	4301351296	18950	Indian	Fee	ow	P
14-18D-45 BTR	18	040S	050W	4301351313	19005	Indian	Indian	ow	Р
LC TRIBAL 16-30D-46	30	040S	060W	4301351320	19006	Indian	Indian	ow	Р
LC TRIBAL 5-20D-45	20	040S	050W	4301351331	19449	Indian	Indian	ow	Р
11-8D-46 BTR	8	040S	060W	4301351336	19314	Indian	Indian	OW	Р
5-7D-45 BTR	7	040S	050W	4301351350	18951	Indian	Indian	ow	Р
7-5-35 BTR	5	030S	050W	4301351599	19078	Indian	Fee	OW	P
13-5D-35 BTR	5	030S	050W	4301351600	18996	Indian	Fee	ow	Р
11-5D-35 BTR	5	030S	050W	4301351601	19061	Fee	Fee	OW	Р
15-5D-35 BTR	5	030S	050W	4301351602	19062	Fee	Fee	OW	Р
9-5D-35 BTR	5	030S	050W	4301351609	19029	Indian	Fee	ow	Р
3-5D-35 BTR	5	030S	050W	4301351638	19079	Indian	Fee	OW	Р
7-8-46 BTR	8	040S	060W	4301351702	19315	Indian	Indian	ow	Р
7-30-46 DLB	30	040S	060W	4301351703	18997	Fee	Indian	OW	Р
3-13D-46 BTR	13	040S	060W	4301351718	18881	Indian	Indian	ow	Р
2-13D-46 BTR	13	040S	060W	4301351719	18885	Indian	Indian	OW	Р
12-12D-46 BTR	12	040S	060W	4301351720	18867	Indian	Indian	OW	P
10-12D-46 BTR	12	040S	060W	4301351721	18856	Indian	Indian	ow	Р
11-11D-47 BTR	11	040S	070W	4301352091	19633	Fee	Fee	ow	P
7-12D-47 BTR	12	040S	070W	4301352094	19600	Indian	Fee	ow	Р
5-12D-47 BTR	12	040S	070W	4301352095	19634	Indian	Fee	ow	Р
14-33D-35 BTR	33	030S	050W	4301352162	19450	Indian	Fee	ow	Р
16-33D-35 BTR	33	030S	050W	4301352163	19451	Indian	Fee	ow	Р
14-22-46 DLB	22	040S	060W	4301333660	17604	Indian	Indian	D	PA
13H-31-36 BTR	31	030S	060W	4301350465	18485	Indian	Fee	OW	PA
16X-23D-36 BTR	23	030S	060W	4301350623	18007	Indian	State	OW	PA
8-6-45 BTR	6	040S	050W	4301350900	18561	Indian	Indian	OW	PA
13-13-36 BTR	13	030S	060W	4301350919	18364	Indian	Fee	OW	PA
7-28-46 DLB	28	040S	060W	4301333569	16460	Indian	Indian	OW	S
5-21-36 BTR	21	030S	060W	4301333641	16674	Indian	Fee	GW	S
13-26-36 BTR	26	030S	060W	4301333980	17569	Indian	Fee	OW	S
14-1-46 BTR	1	040S	060W	4301334113	18516	Indian	Indian	OW	S
16-21-36 BTR	21	030S	060W	4301334130	17721	Indian	Fee	OW	S
14-21-36 BTR	21	030S	060W	4301334131	18006	Indian	Fee	OW	S
7-16-36 BTR	16	030\$	060W	4301334133	17834	Indian	Fee	OW	s
1-30-36 BTR	30	0308	060W	4301334134	17905	Indian	Fee	OW	S
16-30-36 BTR	30	0308	060W	4301334135	18005	Indian	Fee	OW	S
3-23-36 BTR	23	0308	060W	4301334137	17860	Indian	Fee	OW	S
16-16-36 BTR	16	0308	060W	4301334138	17666	Indian	Fee	OW	S

4-26-36 BTR	26	030S	060W	4301334139	17620	Fee	Fee	OW	S
9-11-36 BTR	11	030S	060W	4301334276	17451	Indian	Fee	OW	S
3-36-36 BTR	36	030S	060W	4301350398	17955	Indian	Fee	OW	S
7-10-36 BTR	10	030S	060W	4301350437	18052	Indian	Fee	OW	S
16-12D-46 BTR	12	040S	060W	4301350467	18051	Indian	Indian	OW	S
13H-13-46 BTR	13	040\$	060W	4301350468	18208	Indian	Indian	OW	S
13-12-46 BTR	12	040S	060W	4301350469	18233	Indian	Indian	OW	S
14-8D-36 BTR	8	030S	060W	4301350612	18163	Indian	Fee	OW	S
14-7D-36 BTR	7	030S	060W	4301350613	18330	Indian	Fee	OW	S
16-9-36 BTR	9	0308	060W	4301350645	18078	Indian	Fee	OW	S
7-27-37 BTR	27	030S	070W	4301350647	18090	Indian	Fee	OW	S
16-12D-37 BTR	12	030S	070W	4301350785	18446	Indian	Fee	OW	S
14-21D-37 BTR	21	030S	070W	4301350859	18548	Indian	Fee	OW	S
10-18D-36 BTR	18	030S	060W	4301350915	18884	Indian	Fee	OW	S
5-27D - 36	27	030S	060W	4301350917	18482	Indian	State	OW	S
10-36D-36 BTR	36	030S	060W	4301351005	18523	Indian	Fee	OW	S
14-6D-45 BTR	6	040S	050W	4301351158	18967	Indian	Indian	OW	S
5H-1-46 BTR UTELAND BUTTE	6	040S	050W	4301351215	18728	Indian	Indian	OW	S
5H-1-46 BTR WASATCH	6	040S	050W	4301351216	18727	Indian	Indian	OW	S
1-25D-36 BTR	25	030S	060W	4301351294	18798	Indian	Fee	OW	S
5-5D-35 BTR	5	030S	050W	4301351605	19055	Indian	Fee	OW	S
16-23-36 BTR	23	030S	060W	4301333971	17182	Indian	Fee	OW	TA
LC TRIBAL 14-23D-47	23	040S	070W	4301334022	18616	Indian	Indian	OW	TA
5-32D-36 BTR	32	030S	060W	4301350756	18328	Indian	Fee	OW	TA



October 20, 2016

RECEIVED

OCT 21 2016

Re: Bill Barrett Corporation Transfer to New Operator

DIV. OF OIL, GAS & MINING

Dear Ms. Medina:

Attached please find the change of operation Form 9, Form 5's and Request to Transfer APD formchanging the operator from Bill Barrett Corporation to RIG II, LLC, effective 11/1/2016. Badlands Energy – Utah, LLC will be a sub-operator.

New Operator Contact information:

RIG II, LLC 1582 West 2600 South Woods Cross, Utah 84087-0298 Telephone:(801) 683-4245 Fax:(801) 298-9889

Upon reviewing the attached, please contact myself with any questions at 303-312-8115.

Sincerely,

Bill Barrett Corporation

Brady Riley Permit Analyst

STATE OF UTAH FORM 9 **DEPARTMENT OF NATURAL RESOURCES** 5. LEASE DESIGNATION AND SERIAL NUMBER: DIVISION OF OIL, GAS AND MINING (see attached well list) 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: SUNDRY NOTICES AND REPORTS ON WELLS N/A 7, UNIT or CA AGREEMENT NAME: Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. 1. TYPE OF WELL 8. WELL NAME and NUMBER OIL WELL 🔽 GAS WELL (see attached well list) 2. NAME OF OPERATOR: 9. API NUMBER RIG II, LLC 3. ADDRESS OF OPERATOR PHONE NUMBER: 10. FIELD AND POOL, OR WILDCAT: 1582 West 2600 South (801) 683-4245 STATE UT ZIP 84087 Wood Cross 4. LOCATION OF WELL FOOTAGES AT SURFACE: (see attached well list) COUNTY: QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 11. TYPE OF SUBMISSION TYPE OF ACTION ACIDIZE REPERFORATE CURRENT FORMATION NOTICE OF INTENT (Submit in Duplicate) ALTER CASING FRACTURE TREAT SIDETRACK TO REPAIR WELL Approximate date work will start; CASING REPAIR **NEW CONSTRUCTION** TEMPORARILY ABANDON 11/1/2016 CHANGE TO PREVIOUS PLANS OPERATOR CHANGE TUBING REPAIR CHANGE TUBING PLUG AND ABANDON VENT OR FLARE SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK WATER DISPOSÁL (Submit Original Form Only) CHANGE WELL STATUS PRODUCTION (START/RESUME) WATER SHUT-OFF Date of work completion: COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE OTHER: CONVERT WELL TYPE **RECOMPLETE - DIFFERENT FORMATION** 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. RIG II, LLC IS SUBMITTING THIS SUNDRY AS NOTIFICATION THAT THE WELLS LISTED ON THE ATTACHED LIST HAVE BEEN SOLD TO-Rig II, LLC BY BILL BILL BARRETT CORPORATION EFFECTIVE 11/1/2016. PLEASE REFER ALL FUTURE CORRESPONDENCE TO THE ADDRESS BELOW. RIG II, LLC 1582 West 2600 South Woods Cross, Utah 84087-0298 801-683-4245 (STATE/FEE BOND # 9219529/ BLM BOND # UTB000712/ BIA BOND # LPM9224670) BILL BARRETT CORPORATION NOILS RIG II, LLC MAME (PLEASE PRINT) _ NAME (PLEASE PRINT) SIGNATURE SIGNATURE EH&S, Government and Regulatory Affairs Jesse McSwain Manager NAME (PLEASE PRINT) 1012016

APPROVED

NOV 0 7 2016

(This space for State use only)

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

	(This form should ac	ccompany a Sundr	y Notice, Form 9, reque	esting APD transfer)		
Well	name:	(See attached li	st)			
API ı	number:					
Loca	ation:	Qtr-Qtr:	Section:	Township: Range:		
Com	pany that filed original application:	Bill Barrett Corp	oration			
Date	original permit was issued:					
Com	pany that permit was issued to:	Bill Barrett Cor	poration			
Check one		Des	ired Action:			
	Transfer pending (unapproved) App					
	The undersigned as owner with legal r submitted in the pending Application for owner of the application accepts and a	or Permit to Dril	l, remains valid ar	nd does not require revision. The	new	
✓	Transfer approved Application for F	ermit to Drill t	o new operator			
	The undersigned as owner with legal r information as submitted in the previou revision.				re	
Folio	owing is a checklist of some items rel	ated to the ap	plication, which s	should be verified.	Yes	No
If loc	ated on private land, has the ownership	changed?			✓	
	if so, has the surface agreement been	updated?				✓
	e any wells been drilled in the vicinity of irements for this location?	the proposed w	rell which would af	fect the spacing or siting		✓
	e there been any unit or other agreemen osed well?	ts put in place t	hat could affect th	e permitting or operation of this		✓
	there been any changes to the access osed location?	route including	ownership or righ	t-of-way, which could affect the		✓
Has t	the approved source of water for drilling	changed?				✓
	e there been any physical changes to the s from what was discussed at the onsite		on or access route	which will require a change in		✓
Is bo	nding still in place, which covers this pro	posed well? B	ond No. 9219529-UDOGM/U	JTB000712-BLM / LPM9224670-BIA	1	
shou nece	desired or necessary changes to either a ld be filed on a Sundry Notice, Form 9, o ssary supporting information as required	or amended Ap	plication for Permi			red,
	e (please print) Jesse McSwain		Title Manager	2110		
_	esenting (company name) RIG II, LLC		Date 10 0	<u> 114 </u>		
rtepi	cooming (company name)			· · · · · · · · · · · · · · · · · · ·		

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS AND MINING

TRANSFER OF AUTHORITY TO INJECT									
Well Name and Number 6-32-36 BTR SWD		4			API Number 4301350921				
Location of Well				DUQUENOE	Field or Unit Name CEDAR RIM				
Footage: 1628 FNL 1553 FWL QQ, Section, Township, Range: SENW	32	3S	6W	County : DUCHENSE State : UTAH	Lease Designation and Number 2OG0005608				

EFFECTIVE DATE OF TRANSFER: 11/1/2016

CURRENT OP	PERATOR	
Company:	BILL BARRETT CORPORATION	Name: Duane Zavadil
Address:	1099 18th Street Ste 2300	Signature: 2nCd
	city DENVER state CO zip 80202	Senior Vice President - Title: EH&S, Government and Regulatory Affairs
Phone:	(303) 293-9100	Date: 10 20 16
Comments	· · · · · · · · · · · · · · · · · · ·	

Address: 1582 West 2600 South Signature: Signature: Manager	Company: RIG II, LLC Name: Jesse McSwain	
10/2 . 111	1593 West 2000 Courts	R:
(004) 002 4045	city Wood Cross state UT zip 84087 Title: Manager	
Phone: (801) 683-4245 Date: 10 LC 10	Phone: (801) 683-4245 Date: 10 20 10	

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Transfer approved by:

Approval Date: ///3//L

Comments:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

	TRANSFER OF AL	JTHORITY TO INJECT	Γ
Well Name and 16-6D-46 BT			API Number 4301350781
ocation of Well		:	Field or Unit Name
Footage: 02	200 FSL 0099 FEL	County : DUCHESNE	ALTAMONT Lease Designation and Number
QQ, Section, Township, Range: SESE 6 4S 6W		State: UTAH	20G0005608
	11/1/2016		
EFFECTIVE L	DATE OF TRANSFER: 11/1/2016		
CURRENT OP	PERATOR		
Company:	BILL BARRETT CORPORATION	Name: Duane	e Zavadil
Address:	1099 18th Street Ste 2300	Signature:	m Zinal
	city DENVER state CO zip 80202	SeniorV	ice President - Government and Regulatory Affairs
Phone:	(303) 293-9100	Date:	20/16
Comments:			
oommonto.	•		
NEW OPERAT			
VEW OF LINA	iok		
Company:	RIG II, LLC	Name: Jesse	McSwain ⁽
Address:	1582 West 2600 South	Signature:	Dene MG:
, , , , , , , , , , , , , , , , , , , ,	city Wood Cross state UT zip 84087	Title: Mana	
Phone:	(801) 683-4245	Date:	120/16
Comments:	:		
This space for S	state use only)	•	1
Transfer ap	oproved by:	Approval Date:	11/3/16
	Title: VIC		•

Comments:

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

	TRANSFER OF AL	JTHORITY TO INJEC	Γ
ell Name and SWD 9-36 B	TR		API Number 4301350646
cation of Well			Field or Unit Name CEDAR RIM
Footage: 0	539 FSL 0704 FEL	County : DUCHESNE	Lease Designation and Number
QQ, Section, Township, Range: SESE 9 3S 6W		State: UTAH	2OG0005608
FFECTIVE	DATE OF TRANSFER: 11/1/2016		
URRENT OP	PERATOR		
	DV L DADDETT CODDODATION	_	
Company:	BILL BARRETT CORPORATION	Name: Duane	e Zavadil
Address:	1099 18th Street Ste 2300	Signature: Senior V	rice President -
	city DENVER state CO zip 80202	Title: EH&S, G	Government and Regulatory Affairs
Phone:	(303) 293-9100	Date: <u>\</u>	2014
Comments:			
EW OPERAT	FOR		
Company:	RIG II, LLC	Name: Jesse	McSwain
Address:	1582 West 2600 South	Signature:	ENE MEG-
	city Wood Cross state UT zip 84087	Title: Mana	ger
Phone:	(801) 683-4245	Date:	20/16
Comments:			
is space for S	tate use only)		
Transfer approved by:		Approval Date:	
	Title:		
	This well was own	rived by USE.	PH.
Comr	ments: This well was approved with	Il be required.	
	EPH approved to.		